

Effective August 1, 2002

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Build model numbers by making a maximum of one entry per box and add the corresponding pricing. If an "\*" is shown, no entry is required.

**Example:** To price an INFINITY™ C Series Strain gage meter with 115 Vac power and red LED display, Dual 5 A, Analog output:

**Model:** INFCS-011

The complete model number is INFCS-011  
The list price is \$395.00



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### **DESIGN AND SPECIFICATIONS**

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**REFER TO BACK PAGES FOR MODEL NUMBER AND SUBJECT INDEX**

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## BEYOND INFINITY® INF-B

### 1/8 DIN ULTRA HIGH PERFORMANCE METER

#### UNIVERSAL INPUTS:

**DC Voltage/Current, T/C, RTD, and Strain • Accuracy: ±0.005% rdg • 6-Digit Color Changing LED Display • Up to 166 Readings Per Second • 10 Point Linearization • 4 Isolated Open Collector Output • Isolated Analog Output Optional • Four Relays Optional • Optional Ethernet or RS-232/RS-485 • In-Line Calibration • NEMA 4 Front Bezel**

NEWPORT goes BEYOND INFINITY® with the all new INF-B. The NEWPORT INFINITY set the world standard for accuracy, performance and quality in digital panel meters. The all new INF-B raises the bar even higher with accuracy of up to ±0.005% of reading, and up to 166 readings per second.

The versatile NEWPORT INF-B handles a broad spectrum of dc voltage and current ranges, nine thermocouple types, multiple RTD's, and signals from strain gauge transducers such as load cells and pressure transducers, as well as potentiometric inputs. It also features ten point linearization of input signals, programmable by the user for custom applications.

Built-in excitation to power virtually any sensor or transmitter, and four isolated open collector outputs for control or alarms are standard. The big, bright, 6 digit patented LED display can be programmed to change color between Red, Amber, and Green at any set point. The digits are 58% bigger than the typical display. Output options include: Isolated programmable analog voltage or current and four relays.

With the Serial Communications option, the user can select from a push-button menu between RS-232, RS-485, and either a straightforward ASCII protocol or MODBUS. With NEWPORT'S award-winning Ethernet/Internet option, the new INF-B connects directly to an Ethernet network and transmits data in standard TCP/IP protocol.

#### Embedded Internet and Serial Communications

Featuring optional "Embedded Internet" (specify EI option) the INF-B connects directly to an Ethernet network and transmit data in standard TCP/IP packets, or even serve Web pages over a LAN or the Internet. The INF-B is also available with serial communications. With the C24 option, the user can select from the push-button menu between RS-232, RS-422, and RS-485, with straightforward ASCII commands or MODBUS.

#### Programmable Color Display

The NEWPORT INF-B has a totally programmable color display. It is possible to monitor and control a process through a web browser from anywhere on the Internet. The display can be programmed to change color at any set point or alarm point.s. The instrument can also be programmed to display only one unchanging color: GREEN, AMBER, or RED.

#### SPECIFICATIONS

**Accuracy:** ±0.005% rdg

**Span Temperature Coefficient:** ±20 ppm

**Power:** 90 to 240 Vac

**Normal Mode Rejection:** 60 dB

**Common Mode Rejection:** 120 dB

**Common Mode Voltage:** 1500 V peak per Hv test

**Resolution:** 24-bit

**Reading Rate:** 7 to 166 sample/sec.

**Display:** red/amber/green 6-digit, 9-segment color changing, 17.3 mm (0.68"); H x 10.2 mm (0.40") W; 4 alarm indicators; °C, °F, & °K

**Panel Cutout:** 45 H x 92 mm W (1.772 x 3.622"); 1/8 DIN

**Setpoint Outputs:** four, isolated open collector; rated 150 mA at 1 V sink, 30 V open

**Four Relay Option:** (2) 5 A & (2) 3 A relays Form-C, SPDT

**Analog Output:** 0-5 V/1-5 V/ 0-10 V/0-20 mA/4-20 mA, user selectable; 354 Vp isolation; 14-bit resolution; 0.1% accuracy, 6 msec step response

**Ethernet:** Standards Compliance IEEE 802.3 10Base-T

**Protocols:** TCP/IP, ARP, HTTPGET

**RS-232/RS-422/RS-485/Telnet Simulation/Tunneling/**

**MODBUS:** selectable from menu; both ASCII and MODBUS

**Voltage Input Ranges:** 0-100 mV, 0-1 V, 0-10 V, 0-100 V, ±50 mV, ±500 mV, ±5 V, ±50 V

**Current Input Ranges:** 0-20 mA, 4-20 mA

**Polarity:** unipolar/bipolar, programmable

**Thermocouple Input Types:** J, K, T, E, R, S, B, N, J DIN

**RTD Input:** any 6 ohm to 6 kohm NIST or DIN platinum and any linear RTD

**RTD Connection:** 2-, 3- or 4-wire

**Sensor Excitation:** 10 V at 30 mA; 24 V at 25 mA

<input type="checkbox"/>	INF-B-----INFINITY® Universal Digital Meter .....	.595.00
<input type="checkbox"/>	-4R-----Four Form-C SPDT Relay Output Board .....	.100.00
<input type="checkbox"/>	-A -----Isolated 14-bit Analog Output Board .....	.100.00
<input type="checkbox"/>	-C24-----Serial Communications RS-232 + RS-485 + MODBIUS .....	.100.00
<input type="checkbox"/>	-C4EI-----Ethernet/Internet* .....	.100.00
<input type="checkbox"/>	INF-B-T/C-----Thermocouple Temperature Compensation Connector Kit .....	.25.00

Ordering Example: INF-B-4R-A, INFINITY® Universal Digital Meter with optional relays and analog output, \$795.

\* Mutually exclusive; Can order one Communication/Ethernet Option per unit.

All output options are on printed circuit boards that can be installed at the factory or in the field.

## iSERIES i8XX PROGRAMMABLE COLOR DISPLAY PROCESS INDICATOR CONTROLLER, FOR THERMOCOUPLE, RTD, VOLTAGE OR CURRENT INPUTS.

1/8 DIN model (96mm x 48mm) meter or controller can be programmed to change color at any set point or alarm point, and feature 9-segment LED characters. The 1/8 DIN enclosure has a NEMA-4 (IP65) rated front bezel and removable rear connectors for easy installation and wiring. The "i8XX" adds a selection of outputs for complete control or alarm capability; which can be programmed for any control requirement from simple on-off to full autotune PID with a choice of SPDT relays, Solid State Relays, DC pulse, and Analog outputs. Isolated Analog Output is available on this 1/8 DIN model, with or without 2 SPDT Form C relays.

<input type="checkbox"/>	-----	<b>Monitor only</b>	
	i800	Monitor only (no control outputs) 1/8 DIN	.240.00
<input type="checkbox"/>	-----	<b>Monitor Only Short Case</b>	
	i8C00	Monitor only (no control outputs) 1/8 DIN Compact Case *5	.285.00
<input type="checkbox"/>	-----	<b>Monitor Only with Linear Analog Output</b>	
	i8A00	Monitor only, with isolated linear analog output	.295.00
<input type="checkbox"/>	-----	<b>Controller with Two Control Outputs</b>	
	i8**	1/8 DIN Controller	.310.00
	i8C**	1/8 DIN Controller Compact Case *5	.355.00
	i8A**	1/8 DIN Controller with Isolated 4-20mA or 0-10 Vdc analog output and, 2 outputs configurable as 2 alarms, or 1 control and 1 alarm output. *1*4	.365.00
		**Please select desired output configuration from list below.	
	22	Two solid state relays (SSR's): 0.5A @120/240 Vac	
	23	0.5A SSR and Form "C" SPDT 3A relay 120/240 Vac	
	24	0.5A SSR and pulsed 10 Vdc@20mA (for external SSR)	
	33	Two form "C" SPDT 3A relays 120/240 Vac	
	42	Pulsed 10 Vdc @ 20 mA (for external SSR) and SSR	
	43	Pulsed 10 Vdc @ 20 mA (for external SSR) and relay: Form "C" SPDT 3 A @ 120 Vac, 3 A @ 240 Vac	
	44	Two pulsed 10 Vdc @ 20 mA (for external SSR's)	
	52	Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc. Second output SSR 0.5A @ 120/240 Vac	
	53	Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc, and form "C" SPDT relay 3A @ 120/240 Vac	
	54	Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc, and pulsed 10 Vdc@20mA max (external SSR)	
<input type="checkbox"/>	-----	<b>ALARM</b>	
	-AL	Limit Alarm Version (Simplified Menu; No PID Control) *3*4	.NC
<input type="checkbox"/>	-----	<b>NETWORK OPTIONS</b>	
	-C24	Isolated RS-232 and RS-485/422, 300 to 19.2 k baud *2	.\$60.00
	-EI	Ethernet with Embedded Internet *1	.\$55.00
	-C4EI	Ethernet with Embedded Web Server + Isolated RS-485/422 hub for up to 31 devices *1*2	.\$115.00
<input type="checkbox"/>	-----	<b>POWER SUPPLY OPTIONS</b>	
	-	Standard power input: 90 to 240 Vac/dc, 50 to 400 Hz (no entry required)	.NC
	-DC	12-36 Vdc, 24 Vac *2	.\$25.00
<input type="checkbox"/>	-----	<b>FACTORY SETUP</b>	
	-FS	Factory Setup and configuration (requires -C24 Serial Communication option)	.NC

\*1 Analog Output (option 5) and Ethernet options are not available for the i8A Controller.

\*2 Internal excitation is not available with -DC power option, -C4EI or -C24 options.

\*3 Analog Output (Option 5) is not available with -AL units.

\*4 For i8A\*\* -AL: One Alarm and One Analog Retransmission.

\*5 Isolated Analog and Ethernet options are not available in the compact case.

## iSERIES iS8XX

**1/8 DIN STRAIN/PROCESS METERS AND CONTROLLERS CAN CHANGE COLOR AT ANY SET POINT.**

1/8 DIN model (96mm x 48mm) meter or controller can be programmed to change color at any set point or alarm point, and feature 9-segment LED characters. The 1/8 DIN enclosure has a NEMA-4 (IP65) rated front bezel and removable rear connectors for easy installation and wiring. The "i8XX" adds a selection of outputs for complete control or alarm capability; which can be programmed for any control requirement from simple on-off to full autotune PID with a choice of SPDT relays, Solid State Relays, DC pulse, and Analog outputs. Isolated Analog Output is available on this 1/8 DIN model, with or without 2 SPDT Form C relays.

<input type="checkbox"/>	-----	<b>Monitor only</b>	
	iS800	Monitor only (no control outputs) 1/8 DIN	.275.00
<input type="checkbox"/>	-----	<b>Controller with Two Control Outputs</b>	
	iS8**	1/8 DIN Strain Controller	.345.00
	22	Two solid state relays (SSR's): 0.5A @120/240 Vac	
	23	0.5A SSR and Form "C" SPDT 3A relay 120/240 Vac	
	24	0.5A SSR and pulsed 10 Vdc@20mA (for external SSR)	
	33	Two form "C" SPDT 3A relays 120/240 Vac	
	42	Pulsed 10 Vdc @ 20 mA (for external SSR) and SSR	
	43	Pulsed 10 Vdc @ 20 mA (for external SSR) and relay: Form "C" SPDT 3 A @ 120 Vac, 3 A @ 240 Vac	
	44	Two pulsed 10 Vdc @ 20 mA (for external SSR's	
	52	Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc. Second output SSR 0.5A @ 120/240 Vac	
	53	Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc, and form "C" SPDT relay 3A @ 120/240 Vac	
	54	Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc, and pulsed 10 Vdc@20mA max (external SSR)	
<input type="checkbox"/>	-----	<b>ALARM</b>	
	-AL	Limit Alarm Version (Simplified Menu; No PID Control) *2	.NC
<input type="checkbox"/>	-----	<b>NETWORK OPTIONS</b>	
	-C24	Isolated RS-232 and RS-485/422, 300 to 19.2 k baud *1	\$60.00
	-EI	Ethernet with Embedded Internet	\$55.00
	-C4EI	Ethernet with Embedded Web Server + Isolated RS-485/422 hub for up to 31 devices *1*2	\$115.00
<input type="checkbox"/>	-----	<b>POWER SUPPLY OPTIONS</b>	
	-	Standard power input: 90 to 240 Vac/dc, 50 to 400 Hz (no entry required)	.NC
	-DC	12-36 Vdc, 24 Vac *1	\$25.00
<input type="checkbox"/>	-----	<b>FACTORY SETUP</b>	
	-FS	Factory Setup and configuration (requires -C24 Serial Communication option)	.NC

\*1 Internal excitation is not available with -DC power option, -C4EI or -C24 options.

\*2 Analog Output (Option 5) is not available with -AL units.

## iSERIES i8 DUAL DISPLAY VERTICAL AND HORIZONTAL DUAL DISPLAYS WITH PROGRAMMABLE COLOR DISPLAY PROCESS INDICATOR CONTROLLER, FOR THERMOCOUPLE, RTD, VOLTAGE OR CURRENT INPUTS IN A 1/8 DIN CASE

The i8DH and i8DV are single loop Autotune PID Temperature and Process Controllers for 1/8 DIN (96mm x 48mm) horizontal or vertical panel cutouts. They can be programmed to change color at any set point or alarm point, and feature 9-segment LED characters. Networking and Communications options include direct Ethernet LAN connectivity with an Embedded Web Server, and serial communications. The i8DH and i8DV come standard with your choice of two control or alarm outputs in almost any combination: solid state relays (SSR) rated at 0.5 amp @120/240 Vac; Form "C" SPDT (Single Pole Double Throw) relays rated at 3 amps @120/240 Vac; pulsed 10 Vdc output for use with an external SSR; or Analog Output (0-10 Vdc or 0-20mA) selectable for control or retransmission of the process value. The universal input offers a selection of 10 thermocouple types as well as 2, 3 or 4 wire RTD's, process voltage and current. Built in excitation is standard (24Vdc @ 25mA). The devices handle 0-20mA Process Current and Process Voltage in three scales: 0-100mV, 0-1V, and 0-10V.

The STRAIN/PROCESS instrument (model "iS") meters and controllers measure inputs from Load Cells, Pressure Transducers, and most any strain gauge sensor. Input ranges include 0 to 100 mVdc, -100 mVdc to 1 Vdc, 0 to 10 Vdc in addition to 0-20 mA. Excitation for transducers of 5 Volt and 10 Volt is standard.

<input type="checkbox"/>	-----	<b>Controller with Two Control Outputs</b>	
i8DH**	-----	Temperature/Process 1/8 DIN Controller Dual Horizontal Display	.340.00
i8DV**	-----	Temperature/Process 1/8 DIN Controller Dual Vertical Display	.340.00
iS8DH**	-----	Strain/Process 1/8 DIN Controller Dual Horizontal Display	.400.00
iS8DV**	-----	Strain/Process 1/8 DIN Controller Dual Vertical Display	.400.00
		**Please select desired output configuration from list below.	
22		Two solid state relays (SSR's): 0.5A @120/240 Vac	
23		0.5A SSR and Form "C" SPDT 3A relay 120/240 Vac	
24		0.5A SSR and pulsed 10 Vdc@20mA (for external SSR)	
33		Two form "C" SPDT 3A relays 120/240 Vac	
42		Pulsed 10 Vdc @ 20 mA (for external SSR) and SSR	
43		Pulsed 10 Vdc @ 20 mA (for external SSR) and relay: Form "C" SPDT 3 A @ 120 Vac, 3 A @ 240 Vac	
44		Two pulsed 10 Vdc @ 20 mA (for external SSR's)	
52		Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc. Second output SSR 0.5A @ 120/240 Vac	
53		Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc, and form "C" SPDT relay 3A @ 120/240 Vac	
54		Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc, and pulsed 10 Vdc@20mA max (external SSR)	
<input type="checkbox"/>	-----	<b>ALARM</b>	
-AL		Limit Alarm Version (Simplified Menu; No PID Control) *2	.NC
<input type="checkbox"/>	-----	<b>NETWORK OPTIONS</b>	
-C24		Isolated RS-232 and RS-485/422, 300 to 19.2 k baud *1	.\$60.00
-EI		Ethernet with Embedded Web Server	.\$55.00
-C4EI		Ethernet with Embedded Web Server + Isolated RS-485/422 hub for up to 31 devices *1	.\$115.00
<input type="checkbox"/>	-----	<b>POWER SUPPLY OPTIONS</b>	
-		Standard power input: 90 to 240 Vac/dc, 50 to 400 Hz (no entry required)	.NC
-DC		12-36 Vdc, 24 Vac *1	.\$25.00
<input type="checkbox"/>	-----	<b>FACTORY SETUP</b>	
-FS		Factory Setup and configuration (requires -C24 Serial Communication option)	.NC

\*1 Internal excitation is not available with -DC power option, -C4EI or -C24 options.

\*2 Analog Output (Option 5) is not available with -AL units.



## iSERIES i16XX PROGRAMMABLE COLOR DISPLAY PROCESS INDICATOR CONTROLLER, FOR THERMOCOUPLE, RTD, VOLTAGE OR CURRENT INPUTS.

1/16 DIN size (48mm square) meter or controller can be programmed to change color at any set point or alarm point, and feature 9-segment LED characters. NEMA-4 (IP65) rated front bezel. The electronics are removable from the front panel. The i16 is available with optional Embedded Web Server. Optional both RS-232 and RS-485 in one instrument with both MODBUS serial protocol and the straightforward NEWPORT® ASCII protocol. Free configuration and data acquisition software for the iSeries available on CD-ROM or can be downloaded from the Internet. The i16 monitor displays the process value and has no control outputs.

The STRAIN/PROCESS instrument (model "iS") meters and controllers measure inputs from Load Cells, Pressure Transducers, and most any strain gauge sensor. Input ranges include 0 to 100 mVdc, -100 mVdc to 1 Vdc, 0 to 10 Vdc in addition to 0-20 mA. Excitation for transducers of 5 Volt and 10 Volt is standard.

<input type="checkbox"/>	-----	<b>Monitor only</b>	
i1600	-----	Temperature/Process Monitor only (no control outputs)	.....180.00
<input type="checkbox"/>	-----	<b>Monitor only</b>	
iS1600	-----	Strain/Process Monitor only (no control outputs)	.....230.00
<input type="checkbox"/>	-----	<b>Controller with Two Control Outputs</b>	
i16**	-----	Temperature/Process with 2 control outputs	.....225.00
<input type="checkbox"/>	-----	<b>Controller with Two Control Outputs</b>	
i16D**	-----	Temperature/Process Dual display with 2 control outputs *1	.....245.00
<input type="checkbox"/>	-----	<b>Controller with Two Control Outputs</b>	
iS16**	-----	Strain/Process with 2 control outputs	.....275.00
<input type="checkbox"/>	-----	<b>Controller with Two Control Outputs</b>	
iS16D**	-----	Strain/Process Dual display with 2 control outputs *1	.....295.00
		**Please select desired output configuration from list below.	
22		Two solid state relays (SSR's): 0.5A @120/240 Vac	
23		0.5A SSR and Form "C" SPDT 3A relay 120/240 Vac	
24		0.5A SSR and pulsed 10 Vdc@20mA (for external SSR)	
33		Two form "C" SPDT 3A relays 120/240 Vac	
42		Pulsed 10 Vdc @ 20 mA (for external SSR) and SSR	
43		Pulsed 10 Vdc @ 20 mA (for external SSR) and relay: Form "C" SPDT 3 A @ 120 Vac, 3 A @ 240 Vac	
44		Two pulsed 10 Vdc @ 20 mA (for external SSR's)	
52		Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc. Second output SSR 0.5A @ 120/240 Vac	
53		Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc, and form "C" SPDT relay 3A @ 120/240 Vac	
54		Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc, and pulsed 10 Vdc@20mA max (external SSR)	
<input type="checkbox"/>	-----	<b>ALARM</b>	
-AL		Limit Alarm Version (Simplified Menu; No PID Control) *3	.....NC
<input type="checkbox"/>	-----	<b>NETWORK OPTIONS</b>	
-C24		Isolated RS-232 and RS-485/422, 300 to 19.2 k baud *2	.....\$60.00
-EI		Ethernet with Embedded Web Server *1	.....\$50.00
-C4EI		Ethernet with Embedded Web Server + Isolated RS-485/422 hub for up to 31 devices *1*2	.....\$115.00
<input type="checkbox"/>	-----	<b>POWER SUPPLY OPTIONS</b>	
-		Standard power input: 90 to 240 Vac/dc, 50 to 400 Hz (no entry required)	.....NC
-DC		12-36 Vdc, 24 Vac *2	.....\$25.00
<input type="checkbox"/>	-----	<b>FACTORY SETUP</b>	
-FS		Factory Setup and configuration (requires -C24 Serial Communication option)	.....NC

\*1 Ethernet options are available for the i16D and iS16D Controller only.

\*2 Internal excitation is not available with -DC power option, -C4EI or -C24 options.

\*3 Analog Output (Option 5) is not available with -AL units.

## iSERIES i32XX PROGRAMMABLE COLOR DISPLAY PROCESS INDICATOR CONTROLLER, FOR THERMOCOUPLE, RTD, VOLTAGE OR CURRENT INPUTS.

1/32 DIN size (24mm x 48mm) meter or controller can be programmed to change color at any set point or alarm point, and feature 9-segment LED characters. The i32 handles more thermocouple, RTD, process voltage and current inputs than any other 1/32 DIN controller; with built-in excitation for transmitters or other devices, 24 Vdc @ 25mA. 2 SPDT (Single Pole Double Throw) Form C relays. Both RS-232 and RS-422/485 serial communications in one instrument (C24 option). Both ASCII protocol and Modbus protocol are selectable from the menu.

<input type="checkbox"/>	-----	<b>Monitor only</b>	
	i3200	Monitor only (no control outputs) 1/32 DIN	.....150.00
<input type="checkbox"/>	-----	<b>Controller with Two Control Outputs</b>	
	i32**	Controller (two control outputs) 1/32 DIN	.....195.00
		**Please select desired output configuration from list below.	
	22	Two solid state relays (SSR's): 0.5A @120/240 Vac	
	23	0.5A SSR and Form "C" SPDT 3A relay 120/240 Vac	
	24	0.5A SSR and pulsed 10 Vdc@20mA (for external SSR)	
	33	Two form "C" SPDT 3A relays 120/240 Vac	
	42	Pulsed 10 Vdc @ 20 mA (for external SSR) and SSR	
	43	Pulsed 10 Vdc @ 20 mA (for external SSR) and relay: Form "C" SPDT 3 A @ 120 Vac, 3 A @ 240 Vac	
	44	Two pulsed 10 Vdc @ 20 mA (for external SSR's)	
	52	Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc. Second output SSR 0.5A @ 120/240 Vac	
	53	Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc, and form "C" SPDT relay 3A @ 120/240 Vac	
	54	Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc, and pulsed 10 Vdc@20mA max (external SSR)	
<input type="checkbox"/>	-----	<b>ALARM</b>	
	-AL	Limit Alarm Version (Simplified Menu; No PID Control) *2	.....NC
<input type="checkbox"/>	-----	<b>NETWORK OPTIONS</b>	
	-C24	Isolated RS-232 and RS-485/422, 300 to 19.2 k baud *1	.....\$60.00
	EIS-2	Embedded Internet Server	.....\$195.00
<input type="checkbox"/>	-----	<b>POWER SUPPLY OPTIONS</b>	
	-	Standard power input: 90 to 240 Vac/dc, 50 to 400 Hz (no entry required)	.....NC
	-DC	12-36 Vdc, 24 Vac *1	.....\$25.00
<input type="checkbox"/>	-----	<b>FACTORY SETUP</b>	
	-FS	Factory Setup and configuration (requires -C24 Serial Communication option)	.....NC

\*1 Internal excitation is not available with -DC power option, -C4EI or -C24 options.

\*2 Analog Output (Option 5) is not available with -AL units.



## iSERIES iS32XX

**1/32 DIN STRAIN/PROCESS METERS AND CONTROLLERS CAN CHANGE COLOR AT ANY SET POINT.**

1/32 DIN size (24mm x 48mm) meter or controller can be programmed to change color at any set point or alarm point, and feature 9-segment LED characters. The i32 handles more thermocouple, RTD, process voltage and current inputs than any other 1/32 DIN controller; with built-in excitation for transmitters or other devices, 24 Vdc @ 25mA. 2 SPDT (Single Pole Double Throw) Form C relays. Both RS-232 and RS-422/485 serial communications in one instrument (C24 option). Both ASCII protocol and Modbus protocol are selectable from the menu.

<input type="checkbox"/>	-----	<b>Monitor only</b>	
	iS3200	Monitor only (no control outputs) 1/32 DIN	.....195.00
<input type="checkbox"/>	-----	<b>Controller with Two Control Outputs</b>	
	iS32**	Controller (two control outputs) 1/32 DIN	.....240.00
		**Please select desired output configuration from list below.	
	22	Two solid state relays (SSR's): 0.5A @120/240 Vac	
	23	0.5A SSR and Form "C" SPDT 3A relay 120/240 Vac	
	24	0.5A SSR and pulsed 10 Vdc@20mA (for external SSR)	
	33	Two form "C" SPDT 3A relays 120/240 Vac	
	42	Pulsed 10 Vdc @ 20 mA (for external SSR) and SSR	
	43	Pulsed 10 Vdc @ 20 mA (for external SSR) and relay: Form "C" SPDT 3 A @ 120 Vac, 3 A @ 240 Vac	
	44	Two pulsed 10 Vdc @ 20 mA (for external SSR's)	
	52	Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc. Second output SSR 0.5A @ 120/240 Vac	
	53	Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc, and form "C" SPDT relay 3A @ 120/240 Vac	
	54	Analog output selectable as either control or retransmission of process value; 0-20mA@500 ohm max or 0-10 Vdc, and pulsed 10 Vdc@20mA max (external SSR)	
<input type="checkbox"/>	-----	<b>ALARM</b>	
	-AL	Limit Alarm Version (Simplified Menu; No PID Control) *3*4	.....NC
<input type="checkbox"/>	-----	<b>NETWORK OPTIONS</b>	
	-C24	Isolated RS-232 and RS-485 300 to 19.2 k baud *1	.....\$60.00
	EIS-2	Embedded Internet Server	.....\$195.00
<input type="checkbox"/>	-----	<b>POWER SUPPLY OPTIONS</b>	
	*	Standard power input: 90 to 240 Vac/dc, 50 to 400 Hz (no entry required)	.....NC
	-DC	12-36 Vdc, 24 Vac *1	.....\$25.00
<input type="checkbox"/>	-----	<b>FACTORY SETUP</b>	
	-FS	Factory Setup and configuration (requires -C24 Serial Communication option)	.....NC

\*1 Internal excitation is not available with -DC power option, -C4EI or -C24 options.

\*2 Analog Output (Option 5) is not available with -AL units.

## MODEL RD4 / RD6 iSERIES REMOTE DISPLAY/PROGRAMMER

### Compatible with all iSeries Meters and Controllers

The RD4 /RD6 Remote Display is compatible with all iSeries devices as well as the MICRO\_INFINITY ICN77000 controller and the IDRN/IDRX signal conditioners. The process value, peak or valley from any iSeries device can be displayed on one or more Remote Displays up to 1000 feet away. With the RD4 , the user can also program and configure the iSeries meter or controller to change set points or alarm points. The remote display can be mounted in a 1/8 DIN panel cutout, or surface mounted with the included bale. It features a bright 21mm (.83") 9-segment LED's that can be programmed to change color between Green, Amber, and Red to indicate alarms. Color can be programmed to return to normal or latch on until reset. Serial Connections can be made to an RJ-11 jack or screw Terminals.

RD4 -----4-Digit Remote Display for iSeries Monitors and Controllers .....\$150.00

RD6 -----6-Digit remote display for serial ASCII input, P5000, INF7, INF-B, and other 6-digit instruments \$200.00

### OPTIONS

OS520-Adapter-110 -----110 Vac adapter with dc power cable ..... \$23.75

OS529-Adapter-220 -----220 Vac adapter with dc power cable ..... \$23.75

## iSERIES BIG DISPLAY

### 2" AND 4" UNIVERSAL TEMPERATURE, PROCESS, STRAIN, FREQUENCY, TOTALIZE, AC VOLTAGE, AC CURRENT, AND SERIAL INPUT DISPLAYS WITH WIDE RANGE OF OUTPUT OPTIONS

The BIG Displays can handle a wide variety of signal inputs directly from transducers or process transmitters as well as display data transmitted from other NEWPORT devices via Serial Communications or Ethernet.

### -----DISPLAY AND INPUT TYPE

iLD24-UTP-----2.25" 4-digit display / Universal Temperature/Process input .....795.00

iLD44-UTP-----4" 4-digit display / Universal Temperature/Process input .....995.00

iLD24-SP-----2.25" 4-digit display, Strain Gauge/Process, Monitor .....795.00

iLD44-SP-----4" 4-digit display, Strain Gauge/Process, Monitor .....995.00

iLD24-FP-----2.25" 4-digit display with Frequency/Pulse Totalize input, RS485 Output .....795.00

iLD26-FP-----2.25" 6-digit display with Frequency/Pulse Totalize input, RS485 Output .....995.00

iLD44-FP-----4" 4-digit display with Frequency/Pulse Totalize input, RS485 Output .....795.00

iLD46-FP-----4" 6-digit display with Frequency/Pulse Totalize input, RS485 Output .....1,195.00

iLD24-ACC -----2.25" 4-digit display with AC Current input, RS485 Output .....795.00

iLD44-ACC -----4" 4-digit display with AC Current input, RS485 Output .....995.00

iLD24-ACV -----2.25" 4-digit display with AC Voltage input, RS485 Output .....795.00

iLD44-ACV -----4" 4-digit display with AC Voltage input, RS485 Output .....995.00

iLD24-EI-----2.25" 4-digit display with Ethernet, RS-232, RS-485/422 Input .....795.00

iLD44-EI-----4" 4-digit display with Ethernet, RS-232, RS-485/422 Input .....995.00

iLD26-EI-----2.25" 6-digit display with Ethernet, RS-232, RS-485/422 Input .....995.00

iLD46-EI-----4" 6-digit display with Ethernet, RS-232, RS-485/422 Input .....1,195.00

-----CONTROL OUTPUTS  
-33 2 relays: Form "C" SPDT 3A @ 120 / 240 Vac. Available on UTP and SP models only). .....100.00

### -----NETWORK OPTIONS

-C24 Isolated RS-232 and RS-485/422 with baud rate from 300 to 19.2 k .....\$100.00

-C4EI Ethernet with embedded Web Server + RS-485/422 hub for up to 31 devices .....\$150.00  
Network Options available on (UTP, SP, FP, ACC,ACC) only.  
Contact sales for custom Control or Alarm outputs.

## MODEL iR2 ULTRA HIGH PERFORMANCE 2-COLOR FIBER OPTIC INFRARED RATIO TEMPERATURE MEASUREMENT AND CONTROL SYSTEM

The iR2 is the state-of-the-art instrument for and demanding high temperature (300°C-3000°C) applications. It is ideally suited for measurement and control applications involving semiconductors, metals, glass, and more. The iR2 is extremely fast and accurate with a response time of 10 msec and accuracy of 0.2% of full scale. The iR2 measures temperature using a 2-color ratio technique in which a temperature is computed from the ratio of two different infrared frequencies. This technique is essential for accurate measurements: when the target is obscured by smoke or steam, when the target is viewed through a window or screen that reduces energy, or when the emissivity of the target is unknown or changes. The iR2 does not require that the target completely fill the lens field of view as long as the temperature of the target is higher than the background or material in the foreground. This allows the iR2 lens to be installed farther from the target, or outside a window or screen as well as more accurately measure temperatures of small and moving targets. The iR2 can also be switched to one-color operation if required.

<input type="checkbox"/>	-----	<b>IR TEMPERATURE METER/CONTROLLER</b>	
	iR2C-----	Controller: Cast aluminum enclosure . . . . .	.2,995.00
	iR2P-----	Controller: 1/8 DIN Panel Mount . . . . .	.2,995.00
<input type="checkbox"/>	-----	<b>RANGE</b>	
	-300	1 Programmable Analog Output, selectable as either control or process value, (0-10Vdc, 0-20mA or 4-20mA), plus 1 SPDT relay output . . . . .	.NC
	-600	1 pulsed 10Vdc (for external SSR) and 1 SPDT relay . . . . .	.NC
	-1000	2 SPDT form "C" Relays . . . . .	.NC
<input type="checkbox"/>	-----	<b>OUTPUT OPTIONS</b>	
	-53	300 to 1300°C (572 to 2372°F) . . . . .	.NC
	-43	600 to 1800°C (1112 to 3272°F) . . . . .	.NC
	-33	1000 to 3000°C (1832 to 5432°F) . . . . .	.NC
<input type="checkbox"/>	-----	<b>NETWORK OPTIONS</b>	
	-C24	Isolated RS-232 and RS-485 300 to 19.2 k baud . . . . .	.NC
	-C4EI	Ethernet w/Embedded Web Server + Isolated RS-485/232 . . . . .	.NC

**ORDERING EXAMPLE:** IR2C-1000-53-C4EI is a 2-Color Infrared Temperature Controller in a rugged cast aluminum enclosure. Temperature range 1000 to 3000°C. Programmable Analog Output, 1 SPDT Form C relay, Ethernet, RS-485/RS232/MODBUS communications.

## iDRN SERIES SIGNAL CONDITIONERS RS-232 CONFIGURABLE WITH ANALOG OUTPUT

<input type="checkbox"/>	iDRN-PR -----	<b>PROCESS VOLTAGE OR CURRENT</b> The iDRN-PR signal conditioner accepts process signal inputs within the spans of 400mV, 1, 2, 5, 10V, and 20mA. Excitation of 10 or 14Vdc @ 20mA max. is available for use with the input device. Accuracy is 0.1% with 13 bit resolution and computer scalable via RS-232 using the software package . . . . .	\$ 325.00
<input type="checkbox"/>	iDRN-ST-----	<b>STRAIN GAGE/BRIDGE OR MILLIVOLT</b> The iDRN-ST signal conditioner accepts strain gage/bridge or millivolt inputs with ratiometric or absolute measurement. 10V excitation is standard. Input spans of 30 or 100mV full scale. Accuracy is 0.1% with 13 bit resolution and computer scalable via RS-232 using the software package . . . . .	.345.00
<input type="checkbox"/>	iDRN-TC -----	<b>THERMOCOUPLE INPUT</b> The iDRN-TC signal conditioner accepts thermocouple types J, K, T, E, R, S, B, N and J-DIN. The analog output is configurable for 0 to 10Vdc, 0 to 20mA or 4 to 20mA. Input and output configuration is via RS-232 using the software package. The iDRN series features 3-way isolation to 1000V peak, ±1°C accuracy and resolution to 0.3°C above -200°C . . . . .	.325.00
<input type="checkbox"/>	iDRN-RTD -----	<b>RTD INPUT</b> The iDRN-RTD signal conditioner accepts 100, 500 or 1000 ohm RTDs with alpha of 0.00385 or 0.00392. Input and output configuration is via RS-232 using the software package. The iDRN series features 3-way isolation to 1800V peak, ±1°C accuracy and resolution to 0.1°C. . . . .	.355.00
<input type="checkbox"/>	iDRN-ACV -----	<b>AC VOLTAGE INPUT</b> The iDRN-ACV signal conditioner accepts AC voltage input ranges of 400mV, 4V, 40V and 400V. Accuracy is 0.2% with 13 bit resolution and computer scalable via RS-232 using the software package. The iDRN series features 3-way isolation to 1000V peak. . . . .	.345.00

## AC CURRENT INPUT

iDRN-ACC -----The iDRN-ACC signal conditioner accepts AC current input ranges of 10, 100mA, 1A or 5A. Accuracy is 0.2% with 13 bit resolution and computer scalable via RS-232 using the software package. The iDRN series features 3-way isolation to 1000V peak. . . . .345.00

## FREQUENCY/PULSE INPUT

iDRN-FP-----The iDRN-FP-C signal conditioner accepts pulse inputs from NPN/PNP open collector, TTL/CMOS, magnetic and NAMUR proximity sensor outputs. Excitation of 5, 8.2 or 12.5Vdc @ 25mA is available for the transducer. Frequency (0.2-50kHz) or Totalize/Reset is standard. The Reset input can be reconfigured as a second input to support A-B or Quadrature Totalize modes. . . .295.00

## ACCESSORIES

iDRN-PS-1000-----Power Supply (switching), 95 to 240 Vac input, 24 Vdc output @850 mA (power 7 units) . . . . .150.00  
 DB9-RJ12-----DB9 to RJ12 Connector Adapter, includes 7ft. RJ12 cord . . . . .30.00  
 DB25-RJ12-----DB25 to RJ12 Connector Adapter, includes 7ft. RJ12 cord . . . . .30.00

## iDRN SERIES SIGNAL CONDITIONERS

### RS-485 CONFIGURABLE WITH RS485 OUTPUT PROCESS VOLTAGE OR CURRENT

iDRX-PR -----The iDRX-PR signal conditioner accepts process signal inputs within the spans of 400mV, 1, 2, 5, 10V, and 20mA. Excitation of 10 or 14Vdc @ 20mA max. is available for use with the input device. Accuracy is 0.1% with 13 bit resolution and computer scalable via RS-485 using the software package . . . . . \$ 275.00

### STRAIN GAGE/BRIDGE OR MILLIVOLT

iDRX-ST-----The iDRX-ST signal conditioner accepts strain gage/bridge or millivolt inputs with ratiometric or absolute measurement. 10V excitation is standard. Input spans of 30 or 100mV full scale. Accuracy is 0.1% with 13 bit resolution and computer scalable via RS-485 using the software package . . . . .300.00

### THERMOCOUPLE INPUT

iDRX-TC-----The iDRX-TC signal conditioner accepts thermocouple types J, K, T, R, S, B, N and J-DIN. The analog output is configurable for 0 to 10Vdc, 0 to 20mA or 4 to 20mA. Input and output configuration is viaRS-485 using the software package. The iDRX series features 3-way isolation to 1800V peak, ±1°C accuracy and resolution to 0.3°C above -200°C . . . . .250.00

### RTD INPUT

iDRX-RTD -----The iDRX-RTD signal conditioner accepts 100, 500 or 1000 ohm RTDs with alpha of 0.00385 or 0.00392. Input and output configuration is via RS-485 using the software package. The iDRX series features 3-way isolation to 1000V peak, ±1°C accuracy and resolution to 0.1°C . . . . .250.00

### AC VOLTAGE INPUT

iDRX-ACV -----The iDRX-ACV signal conditioner accepts AC voltage input ranges of 400mV, 4V, 40V and 400V. Accuracy is 0.2% with 13 bit resolution and computer scalable via RS-485 using the software package. The iDRX series features 3-way isolation to 1000V peak . . . . .270.00

### AC CURRENT INPUT

iDRX-ACC -----The DRX-ACC signal conditioner accepts AC current input ranges of 10, 100mA, 1A or 5A. Accuracy is 0.2% with 13 bit resolution and computer scalable via RS-485 using the software package. The iDRX series features 3-way isolation to 1000V peak . . . . .270.00

### FREQUENCY/PULSE INPUT

iDRX-FP-----The iDRX-FP signal conditioner accepts pulse inputs from NPN/PNP open collector, TTL/CMOS, magnetic and NAMUR proximity sensor outputs. Excitation of 5, 8.2 or 12.5Vdc @ 25mA is available for the transducer. Frequency (0.2-50kHz) or Totalize/Reset is standard. The Reset input can be reconfigured as a second input to support A-B or Quadrature Totalize modes. . . .250.00

## ACCESSORIES

iDRN-PS-1000-----Power Supply (switching), 95 to 240 Vac input, 24 Vdc output @850 mA (power 7 units) . . . . .150.00  
 CAT-285-----Bi-directional RS-232/RS-485 converter for iDRX . . . . .148.00  
 DB9-RJ12-----DB9 to RJ12 Connector Adapter, includes 7ft. RJ12 cord . . . . .30.00  
 DB25-RJ12-----DB25 to RJ12 Connector Adapter, includes 7ft. RJ12 cord . . . . .30.00  
 RJ12T-----RJ12" T" Split Connector for RS-485 instruments, includes 7ft. RJ12 cord . . . . .15.00

## iSERVER

### EMBEDDED INTERNET SERVER AND ETHERNET BRIDGE

The "iSeries server" is a DIN rail device which can be a hub connecting up to 32 instruments to the Ethernet and Internet. The "iSeries server" is both Web Server and an Ethernet-Serial bridge. To connect to the iSeries server, iSeries devices must feature the "C24" Serial Communications option. The NEWPORT iSeries server is also compatible with the NEWPORT INFINITY family of ultra high performance digital panel meters and the NEWPORT DRX family of SignalConditioners.

The iSeries server is an alternate way to connect or Internet. Instead of Connecting each iSeries devices to an Ethernet LAN with individual IPAddresses for each device, the device directly to the Ethernet network, the iSeries server can be a HUB/Server for up to 32 devices.

<input type="checkbox"/>	EIS-2-----	Embedded Internet Server, serves 32 devices .....	\$195.00
	EIS-W-110	Embedded Internet Server, serves 32 devices, mounted in metal case with flange mount and 110 Vac adapter .....	.195.00
	EIS-W-240	Embedded Internet Server, serves 32 devices, mounted in metal case with flange mount and 240 Vac adapter .....	.195.00
	EIS-PCB	Printed circuit board version of I-Server. Contact Newport OEM Engineering group for application assistance and quantity pricing. oem@newportUS.com 714-540-4914	

### OPTIONS

<input type="checkbox"/>	iDRN-PS-1000----	Power supply (switching), 95 to 240Vac, 24Vdc output. ....	\$150.00
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## INFINITY® SERIES

### 6-DIGIT MICROPROCESSOR METER FOR DC VOLTS, CURRENT TEMPERATURE AND STRAIN WITH SENSOR EXCITATION

6-digit (999,999) meter. Standard features include NEMA-4 front bezel, 4 open-collector outputs, wide selection of input ranges, peak and valley reading, smart filtering, programmable decimal point, large digital offset capabilities, on-board sensor excitation, and field installable output, control and communication options.

<input type="checkbox"/>		<b>INPUT TYPE</b>	
	INFP	PROCESS-INFINITY meter which accepts a wide selection of DC current and DC voltage inputs as well as potentiometer and ratiometric inputs. Large digital offset capability allows for easy scaling to virtually any engineering unit. On-board excitation to power transducers or current loops. Factory default is 4-20 mA input and 24 Vdc sensor excitation to display 0 to 100000 .....	\$ 545.00
	INFZP	PROCESS-INFINITY "Split meter with remote display" .....	.595.00
	INFS	STRAIN-INFINITY meter for strain gage, pressure transducer, load cell and virtually any bridge input. On-board transducer excitation. Easy scaling to engineering units. Factory default setup is 0-100 mV input with 10 V dc sensor excitation scaled to display 0 to 10000 .....	.545.00
	INFZS	STRAIN-INFINITY "Split meter with remote display" .....	.595.00
	INFW	SCALE-INFINITY meter offers a wide range of DC voltage and current inputs that can be configured to display and transmit your input signal in any engineering units. Factory default setup is 0-100 mV input with 10 Vdc sensor excitation scaled to display 0 to 1000000 .....	.595.00
	INFZW	SCALE-INFINITY "Split meter with remote display" .....	.645.00
	INFU	UNIVERSAL-INFINITY meter with all the capabilities of the Temperature, Process and Strain versions available in one instrument. Factory default setup is 0-100 mV DC input with 10 Vdc sensor excitation to display 0 to 100000 .....	.645.00
	INFZU	UNIVERSAL-INFINITY "Split meter with remote display" .....	.695.00
	INF T	TEMPERATURE-INFINITY meter which accepts J, K, T, E, R, S, B, N and DIN J thermocouples plus 10ohm copper and all 100ohm platinum 2-, 3- and 4-wire RTDs. Front-panel selectable readings in Centigrade, Fahrenheit or Kelvin. Sensor break detection. Factory default setup is type "K" T/C in °F .....	.595.00
	INFZT	TEMPERATURE-INFINITY "Split meter with remote display" .....	.645.00

<input type="checkbox"/>	<b>POWER AND LED COLOR</b>	
0	Designates 115 Vac power and red LED display . . . . .	.NC
1	Designates 230 Vac power and red LED display . . . . .	.NC
2	Designates 115 Vac power and green LED display . . . . .	.NC
3	Designates 230 Vac power and green LED display . . . . .	.NC
4	Designates 10-32 Vdc power and red LED display* . . . . .	.\$ 110.00
5	Designates 10-32 Vdc power and green LED display* . . . . .	.110.00

\* Not available with REL4 option.

<input type="checkbox"/>	<b>BCD AND CONTROL OUTPUT(S)</b>	
0	Four optically isolated open-collector outputs . . . . .	.NC
1	Isolated parallel BCD output (BCD1) . . . . .	.\$ 110.00
2	Isolated dual 7 A relays (REL1) . . . . .	.75.00
3	Isolated dual 7 amp and dual 1 amp relays* (REL4) . . . . .	.175.00

\* Not available with dc power options 4 and 5 above.

<input type="checkbox"/>	<b>ANALOG OUTPUT</b>	
0	No analog output. . . . .	.NC
1	Isolated analog output (0-20 mA, 4-20 mA, 0-5 V, 1-5 V, 0-10 V (AN02)) . . . . .	.\$ 110.00

<input type="checkbox"/>	<b>SERIAL OUTPUTS</b>	
0	No serial output. . . . .	.NC
1	Isolated RS-232 serial output* (RS24) . . . . .	.\$ 110.00
2	Isolated RS-485 serial addressable output* (RS40 or RS24) . . . . .	.110.00

\*Includes 6' of interconnecting cable with telephone plug connectors. See serial connector accessories below for conversion to "D" type connectors.

<input type="checkbox"/>	<b>RANGE PROCESS OR STRAIN</b>	
DC1	0-100 mV . . . . .	.NC
DC2	0-1 V . . . . .	.NC
DC3	0-5 V . . . . .	.NC
DC4	1-5 V . . . . .	.NC
DC5	0-10 V . . . . .	.NC
DC6	0-100 V . . . . .	.NC
DC7	±50 mV . . . . .	.NC
DC8	±500 mV . . . . .	.NC
DC9	±5 V . . . . .	.NC
DC10	±50 V . . . . .	.NC
C1	0-20 mA . . . . .	.NC
C2	4-20 mA . . . . .	.NC

<input type="checkbox"/>	<b>TEMPERATURE</b>	
TC	J, K, E, T, B, S, N or DIN J in degrees C, F or K . . . . .	.NC
RTD1	10 ohm copper** . . . . .	.NC
RTD2	100 ohm platinum with 0.00385 alpha** . . . . .	.NC
RTD3	100 ohm platinum with 0.00392 alpha** . . . . .	.NC

\*\*Enter C for Celsius, F for Fahrenheit, or K for Kelvin.

NOTE: All of the above ranges are available on the Universal INFINITY™

<input type="checkbox"/>	<b>ADD-ON OPTIONS</b>	
FS	Special calibration configuration. . . . .	.\$ 25.00
BL	Blank lens . . . . .	.15.00

<input type="checkbox"/>	<b>ACCESSORIES</b>	
9SC2	9-pin serial connector with RJ-11 jack for RS-232 . . . . .	.\$ 30.00
9SC4	9-pin serial connector with RJ-12 jack for RS-485 . . . . .	.30.00
25SC2	25-pin serial connector with RJ-11 jack for RS-232 . . . . .	.30.00
25SC4	25-pin serial connector with RJ-12 jack for RS-485 . . . . .	.30.00
SP1	Split connector for RS-485 network . . . . .	.15.00

**MOST POPULAR MODELS**

INFS-0010-DC1	Strain gage indicator with analog output . . . . .	.\$ 655.00
INFP-0210-C2	Process receiver with dual relay and analog output . . . . .	.730.00



## INFINITY® X TRANSMITTER SERIES

### SMART TRANSMITTER FOR DC VOLTS, CURRENT, TEMPERATURE AND STRAIN WITH SENSOR EXCITATION

Standard features include 4-open collector outputs, wide selection of input ranges, peak and valley detection, smart filtering, large digital offset capabilities, on-board sensor excitation, and field installable output, control and communication options.

<input type="checkbox"/>	<b>INPUT TYPE</b>		
INFXT	TEMPERATURE TRANSMITTER accepts J, K, T, E, R, S, B, N and DIN J thermocouples plus 10 ohm copper and all 100 ohm platinum 2-, 3- and 4-wire RTDs. Selectable readings in Centigrade, Fahrenheit or Kelvin Sensor break detection. Factory default setup is type "K" T/C in °F		\$ 495.00
INFXS	STRAIN TRANSMITTER for strain gage, pressure transducer, load cell and virtually any bridge input. On-board transducer excitation. Easy scaling to engineering units. Factory default setup is 0-100 mV input with 10 V dc sensor excitation scaled to display 0 to 100000.		.445.00
INFXP	PROCESS TRANSMITTER accepts a wide selection of DC current and DC voltage inputs as well as potentiometer and ratiometric inputs. Large digital offset capability allows for easy scaling to virtually any engineering unit. On-board excitation to power transducers or current loops. Factory default is 4-20 mA input and 24 V dc sensor excitation to display 0 to 100000		.445.00
INF XU	UNIVERSAL TRANSMITTER all the capabilities of the Temperature, Process and Strain versions available in one instrument. Factory default setup is 0-100 mVdc input with 10 V dc sensor excitation to display 0 to 100000		.545.00
INF XW	SCALE TRANSMITTER for load cell, strain gage, pressure transducer inputs. Handbook 44 certified for Class III, IIII, IV. Standard features include digital tare, class selection, scale division selection, easy scaling to transmit in any engineering units, 10 or 24 Vdc sensor excitation. Factory default is 0-100 mV input with 10 Vdc sensor excitation		.495.00
<input type="checkbox"/>	<b>POWER AND LED COLOR</b>		
0	Designates 115 Vac power		.NC
1	Designates 230 Vac power		.NC
2	Designates 10-32 Vdc power*		\$ 110.00
	* dc power is not available with REL4 option below		
<input type="checkbox"/>	<b>BCD AND CONTROL OUTPUT(S)</b>		
0	Four optically isolated open-collector outputs		.NC
1	Isolated parallel BCD output	(BCD1)	\$ 110.00
2	Isolated dual 7 amp relays	(REL1)	75.00
3	Isolated dual 7 amp and dual 1 amp relays	(REL4)	175.00
<input type="checkbox"/>	<b>ANALOG OUTPUT</b>		
0	No analog output		.NC
1	Isolated analog output (0-20 mA, 4-20 mA, 0-5 V 1-5 V, 0-10 V	(AN02)	\$ 110.00
<input type="checkbox"/>	<b>SERIAL OUTPUTS</b>		
0	No serial output		.NC
1	Isolated RS-232 serial output* (RS20)		\$ 110.00
2	Isolated RS-485 serial addressable output* (RS40)		110.00
	*Includes 6' of interconnecting cable with telephone plug connectors. See serial connector accessories below for conversion to "D" type connectors.		
<input type="checkbox"/>	<b>RANGE- PROCESS OR STRAIN</b>		
DC1	0-100 mV		.NC
DC2	0-1 V		.NC
DC3	0-5 V		.NC
DC4	1-5 V		.NC
DC5	0-10 V		.NC
DC6	0-100 V		.NC
DC7	±50 mV		.NC
DC8	±500 mV		.NC
DC9	±5 V		.NC
DC10	±50 V		.NC
C1	0-20 mA		.NC
C2	4-20 mA		.NC

<input type="checkbox"/>	<b>TEMPERATURE</b>	
TC	J, K, E, T, B, S, N or DIN J in degrees C, F or K. . . . .	.NC
RTD1(**)	10 ohm copper . . . . .	.NC
RTD2(**)	100 ohm platinum with 0.00385 alpha . . . . .	.NC
RTD3(**)	100 ohm platinum with 0.00392 alpha . . . . .	.NC

\*\*Enter C for Centigrade, F for Fahrenheit, or K for Kelvin.  
NOTE: All of the above ranges are available on the "INFXU"

**ADD-ON OPTIONS**

<input type="checkbox"/>	FS-----Special calibration configuration . . . . .	\$ 25.00
<input type="checkbox"/>	H5-----50 Hz line frequency (requires "FS" option) . . . . .	—
<input type="checkbox"/>	H6-----60 Hz line frequency (requires "FS" option) . . . . .	—
<input type="checkbox"/>	HPXUR-----Hand-held programmer/remote red display . . . . .	150.00
<input type="checkbox"/>	HPXUG-----Hand-held programmer/remote green display . . . . .	150.00
<input type="checkbox"/>	HPXWR-----Hand-held programmer/remote red display for INFXW . . . . .	150.00
<input type="checkbox"/>	HPXWG-----Hand-held programmer/remote green display for INFXW . . . . .	150.00
<input type="checkbox"/>	HPU-----Bail-mount. . . . .	50.00

**ACCESSORIES**

<input type="checkbox"/>	9SC2-----9-pin serial connector with RJ-11 jack for RS-232 . . . . .	\$ 30.00
<input type="checkbox"/>	9SC4-----9-pin serial connector with RJ-12 jack for RS-485 . . . . .	30.00
<input type="checkbox"/>	25SC2-----25-pin serial connector with RJ-11 jack for RS-232 . . . . .	30.00
<input type="checkbox"/>	25SC4-----25-pin serial connector with RJ-12 jack for RS-485 . . . . .	30.00
<input type="checkbox"/>	SP1-----Split connector for RS-485 network . . . . .	15.00

**MOST POPULAR MODELS**

INFXP-0211-C2 . . . . .	\$ 740.00
INFXU-0212-DC1 . . . . .	.840.00
INFXT-0010-KC . . . . .	.605.00
HPXUR: Hand-held programmer/remote red display . . . . .	150.00

## INFBT

### BENCHTOP DIGITAL THERMOMETER HIGH PERFORMANCE SINGLE AND TEN CHANNEL MODELS

The INFBT is a high precision digital INFINITY™ series benchtop meter, with two models which accept either thermocouple or RTD input. A large easy-to-read 0.56" display feature 6-digits allowing 0.01° resolution. The thermocouple input model has 9 T/C types in memory, any one of which can be selected through the front-panel. The RTD input model can be programmed for a linear resistance or one of two 100ohm platinum curves, 0.00385 or 0.00392. The unit will display °C/°F or K.

<input type="checkbox"/>	<b>MODELS</b>	
	INFBT01	Single channel benchtop instrument . . . . . \$ 820.00
	INFBT10	Ten channel benchtop instrument . . . . . 870.00

<input type="checkbox"/>	<b>POWER AND LED COLOR</b>	
	0	Designates 115 Vac power and red LED display . . . . . .NC
	1	Designates 230 Vac power and red LED display . . . . . .NC
	2	Designates 115 Vac power and green LED display . . . . . .NC
	3	Designates 230 Vac power and green LED display . . . . . .NC
	4	Designates 10-32 Vdc power and red LED display . . . . . \$ 110.00
	5	Designates 10-32 Vdc power and green LED display . . . . . 110.00

<input type="checkbox"/>	<b>BCD AND CONTROL OUTPUT(S)</b>	
	0	Five optically isolated open-collector outputs . . . . . .NC
	2	Isolated dual 7 A relays (REL1) . . . . . \$ 75.00
	3	Isolated dual 7 amp and dual 1 amp relays (REL4) . . . . . 175.00

<input type="checkbox"/>	<b>ANALOG OUTPUT</b>	
	0	No analog output . . . . . .NC
	1	Isolated analog output (0-20 mA, 4-20 mA, 0-5 V, 1-5 V, 0-10 V) (AN02) . . . . . \$ 110.00

<input type="checkbox"/>	<b>SERIAL OUTPUTS</b>	
	0	No serial output . . . . . .NC
	1	Isolated RS-232 serial output* (RS24) . . . . . \$ 110.00
	2	Isolated RS-485 serial addressable output* (RS40 or RS24) . . . . . 110.00
		*Includes 6' of interconnecting cable with telephone plug connectors.

<input type="checkbox"/>	<b>RANGE TEMPERATURE</b>	
	TC	J, K, E, T, B, R, S, N or DIN J in degrees C, F or K . . . . . .NC
	RTD1(**)	10 ohm copper . . . . . .NC
	RTD2(**)	100 ohm platinum with 0.00385 alpha . . . . . .NC
	RTD3(**)	100 ohm platinum with 0.00392 alpha . . . . . .NC
		**Enter C for Celsius, F for Fahrenheit, or K for Kelvin.

<input type="checkbox"/>	<b>ADD-ON OPTIONS</b>	
	FS-----	Special calibration configuration. . . . . \$ 25.00
	BL-----	Blank lens . . . . . 15.00

<input type="checkbox"/>	<b>ACCESSORIES</b>	
	BP1-----	Battery pack with AC charger (for use with DC powered units only. Mutually exclusive with analog output). . . . . \$ 230.00
	9SC2-----	9-pin serial connector with RJ-11 jack for RS-232 . . . . . 30.00
	9SC4-----	9-pin serial connector with RJ-12 jack for RS-485 . . . . . 30.00
	25SC2-----	25-pin serial connector with RJ-11 jack for RS-232 . . . . . 30.00
	25SC4-----	25-pin serial connector with RJ-12 jack for RS-485 . . . . . 30.00
	SP1-----	Split connector for RS-485 network . . . . . 15.00

### MOST POPULAR MODEL

	INFBT-0011-KF Temperature indicator with RS-232 output and analog output . . . . . \$ 1040.0
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## INFINITY® SERIES INFPS PRESSURE STANDARD

INFPS-----The INFINITY™ series pressure standard gives you the features of an expensive laboratory . . . . . \$ 795.00 standard in a portable bench top unit. The convenient front-panel tare allows zeroing at the touch of a button. All units are NIST traceable. The handle doubles as a bench stand affording the user both convenience and easy reading. The optional serial communications capability permits easy transfer of test data to a computer for documentation purposes. The outputs can easily be configured as go/no-go alarms for error- free operation

-----**POWER AND LED COLOR**  
0 Designates 115 Vac power and red LED display . . . . . .NC  
1 Designates 230 Vac power and red LED display . . . . . .NC

-----**BCD AND CONTROL OUTPUT(S)**  
0 Four optically isolated open-collector outputs . . . . . .NC  
2 Isolated dual 7 A relays (REL1) . . . . . \$ 75.00  
3 Isolated dual 7 amp and dual 1 amp relays (REL4) . . . . .175.00

-----**ANALOG OUTPUT**  
0 No analog output . . . . . .NC  
1 Isolated analog output (0-20 mA, 4-20 mA, 0-5 V, 1-5 V, 0-10 V) (AN02) . . . . . \$ 110.00

-----**SERIAL OUTPUTS**  
0 No serial output . . . . . .NC  
1 Isolated RS-232 serial output\* (RS20) . . . . . \$ 110.00  
2 Isolated RS-485 serial addressable output\* (RS40) . . . . .110.00  
\*Includes 6' of interconnecting cable with telephone plug connectors. See serial connector accessories below for conversion to "D" type connectors.

-----**INPUT RANGE**  
P15 0-15.000 PSIG . . . . . .NC  
P30 0-30.000 PSIG . . . . . .NC  
P60 0-60.000 PSIG . . . . . .NC  
P100 0-100.00 PSIG . . . . . .NC  
P300 0-300.00 PSIG . . . . . .NC  
P600 0-600.00 PSIG . . . . . .NC  
P1K 0-1000.0 PSIG . . . . . .NC  
P3K 0-3000.0 PSIG . . . . . .NC  
P6K 0-6000.0 PSIG . . . . . .NC

### ACCESSORIES

PS4D-----Snubber for motor oil . . . . . \$ 10.00  
 PS4E-----Snubber for water and light oils . . . . .10.00  
 PS4G-----Snubber for gases. . . . .10.00  
 9SC2-----9-pin serial connector with RJ-11 jack for RS-232 . . . . .30.00  
 9SC4-----9-pin serial connector with RJ-12 jack for RS-485 . . . . .30.00  
 25SC2-----25-pin serial connector with RJ-11 jack for RS-232 . . . . .30.00  
 25SC4-----25-pin serial connector with RJ-12 jack for RS-485 . . . . .30.00  
 SP1-----Split connector for RS-485 network . . . . .15.00

### MOST POPULAR MODELS

INFPS-0210-P15 . . . . . \$ 980.00  
INFPS-0000-P100 . . . . .795.00  
INFPS-0001-P1K . . . . .905.00

## INFINITY® C SERIES

### 4-DIGIT INDICATOR/CONTROLLER

4-digit (9999) meter. Standard features include a wide selection of signal input choices, peak value recall, front-panel tare (on applicable model), sensor excitation, large digital offset capabilities for display in engineering units. Options include dual 5 A form C relay outputs and scalable DC volt or mAdc outputs, NEMA-4 splash proof cover

**Note: Output options unless noted, are not field installable and must be specified at time of order.**

	<b>-----INPUT TYPE</b>	
INFCP	Process meter accepts 0-100 mV, +50 mV, 0-5 V, 1-5 V, 0-10 V, +5 Vdc, 0-20 mA and 4-20 mAdc inputs, with 5, 10, 12 or 24 Vdc sensor excitation. Factory default setup is 4-20 mA input with 24 V sensor excitation and scaled to display 0-100.0	\$ 245.00
INFCS	Strain gage meter that accepts 0-100 mV, +50 mV, 0-5 V, 1-5 V, 0-10 V, 4-20 mA or 4-20 mAdc signal inputs. Standard features include sensor excitation of 5, 10, 12 or 24 Vdc. Factory default setup is 0-100 mVdc input with 10 Vdc sensor excitation and scaled to display 0-100.0	.245.00
INFCT	Temperature meter that accepts type J, K, T and DIN J thermocouples. Standard features include resolution of 0.1° or 1.0°, °F or °C indication. Factory default setup is type K thermocouple input in °F	.245.00
INFCR	Temperature meter that accepts 2-, 3- or 4-wire 100ohm platinum RTDs. Standard features include resolution of 0.1° or 1.0°, °F or °C indication. Factory default setup is 3-wire input, alpha =0.00385 shown in °F	.245.00
INFCH	Temperature meter that accepts most popular thermistor inputs such as series 400 and 700 sensor inputs Standard features include accuracy of +0.1°C, resolution of 0.1° or 1.0°, °F or °C indication. Factory default setup is 2252ohm @ 25°C input type, in °F	.245.00
INFCDT	Differential temperature meter that accepts type J, K, T and DIN J thermocouples. Standard features include front-panel selection of T1, T2 or T1-T2 indication, resolution of 0.1° or 1.0°, °F or °C indication and dual setpoints. Factory default is type K thermocouple shown in °F	.345.00
INFCDR	Differential temperature meter that accepts 2-, 3- or 4-wire 100 ohm platinum RTDs. Standard features include a choice of 0.00385 or 0.00392 alpha curves, resolution of 0.1° or 1.0°, °F or °C indication. Factory default setup is 3-wire input, alpha = 0.00385 shown in °F	.345.00
INFCTP	Temperature meter that accepts type J, K, T and DIN J thermocouples and has time proportional relay and open-collector outputs. Standard features include resolution of 0.1° or 1.0°, °F or °C indication, analog and dual relay	.345.00
INFCRP	Temperature meter that accepts 2-, 3- or 4-wire 100 ohm platinum RTDs and has time proportional relay and open-collector outputs. Standard features include resolution of 0.1° or 1.0°, °F or °C indication, analog output and dual relay outputs. Factory default setup is for 3-wire input, alpha = 0.00392 shown in °F	\$ 395.00
INFCpH	pH controller 0.00 to 14.00 pH. Standard features include automatic or manual temperature compensation, quick calibration to 4, 7, and 10 pH, accepts most BNC combination pH electrodes with or without 100 ohm RTD, analog output and dual relay outputs	.395.00
INFCOR	ORP controller -2V to +2V. Standard features include display of calibrated ORP or RAW millivolt values, analog output and dual relay outputs. Includes on-line or manual calibration	.395.00
INFCOP	Combination pH/ORP controller. Includes analog and dual relay outputs	.495.00

	<b>-----POWER AND LED COLOR</b>	
0	Designates 115 Vac power and red LED display	.NC
1	Designates 230 Vac power and red LED display	.NC
2	Designates 115 Vac power and green LED display	.NC
3	Designates 230 Vac power and green LED display	.NC
4	Designates 10-32 Vdc power and red LED display	\$ 95.00
5	Designates 10-32 Vdc power and green LED display	.95.00
6	Designates 26-56 Vdc power and red LED display	.120.00
7	Designates 26-56 Vdc power and green LED display	.120.00

	<b>-----CONTROL OUTPUT and ANALOG OUTPUT OPTIONS</b>	
00	No control outputs	.NC
10	Dual 5 A, form C (SPDT) relay outputs	\$ 70.00
01	Non-isolated analog output, volts DC or mAdc	.80.00
11	Dual 5 A, form C (SPDT) relays and analog Outputs*	.150.00
12	Isolated analog output and dual 5/ A, (SPDT) relays	.160.00
	*Standard with INFCpH, INFCOP, INFCOR, INFCTP, INFCRP Models	.NC

## ADD-ON OPTIONS

FS-----Special calibration and/or configuration ..... \$ 25.00

## ACCESSORIES

TP1A-----Trimplate panel adapter. Adapts DIN1A/DIN2A cases to larger panel cutouts ..... \$ 30.00

## MOST POPULAR MODELS

INFCP-010 ..... \$ 315.00  
 INFCS-011 ..... .395.00  
 INFCT-011 ..... .395.00  
 INFCpH-011. .... .395.00

## INFINITY® C AC TRUE RMS AMP OR VOLTMETER 4-DIGIT INDICATOR/CONTROLLER

INFCAC-----The INFCAC true RMS meter offers a wide selection of signal inputs. Two (2) versions are available for AC volts and AC amps. Standard features include selection of AC input voltage ranges 999.9 mV, 9.999 V, 99.99 V or 750 V, AC amp inputs of 999.9  $\mu$ A, 9.999 mA, 99.99 mA, 999.9 mA or 5.000 A. An on board current shunt is standard for connecting directly to your current transformer, high accuracy of 0.1% of reading, peak & valley detection and wide offset capabilities for scaling the meter to display any values via the front panel buttons or the optional serial communication boards. .... \$ 345.00

## POWER AND LED COLOR

-----  
 0 Designates 115 Vac power and red LED display ..... .NC  
 1 Designates 230 Vac power and red LED display ..... .NC  
 2 Designates 115 Vac power and green LED display ..... .NC  
 3 Designates 230 Vac power and green LED display ..... .NC

## CONTROL OUTPUT(S)

-----  
 0 No control outputs ..... .NC  
 1 Dual 6 A, form C relay outputs\* ..... \$ 70.00  
 \*Not field installable. Must be specified at time of order.

## ANALOG OUTPUT

-----  
 0 No analog output ..... .NC  
 1 Analog output selectable in volts DC or mAdc\* ..... \$ 80.00  
 \*Not field installable. Must be specified at time of order.

## SERIAL COMMUNICATIONS

-----  
 0 No serial communications ..... .NC  
 1 Isolated RS-232 serial communications (RS2AC)\* ..... \$ 110.00  
 2 Isolated RS-485 serial communications (RS4AC)\* ..... .110.00  
 \*Field installable. Includes 6' of interconnecting cable with telephone plug connectors.

## INPUT TYPES and RANGES

-----  
 V5 AC voltage\* (default range: V5 = 0-750 V ac) Ranges V2 = 0-1 V,  
 V3 = 0-10V, V4 = 0-100V are field selectable ..... .NC  
 C5 AC current\* (default range: C5 = 0-5 A ac) Ranges C1 = 0-1 mA,  
 C2 = 0-10mA, C3 = 0-100mA, C4 = 0-1A are field selectable ..... .NC  
 \*Voltage and Current are not field interchangeable  
 Current Transformers: See "ACCESSORIES FOR METERS AND COMMUNICATIONS"

## ADD-ON OPTIONS

FS-----Special calibration and/or configuration ..... \$ 25.00

BL-----Blank lens ..... .15.00

## MOST POPULAR MODELS

INFCAC-0000-V5 ..... \$ 345.00  
 INFCAC-0110-C5 ..... .495.00



## MODEL IDP 4-DIGIT ECONOMICAL PANEL MOUNT PROCESS MONITOR

IDP-----The IDP is a 4-digit (9999) LED meter that accepts 4-20 mA, 20-4 mA, 0-5 V, 1-5 V or 0-10 V inputs. Input selection is made via the front push-buttons. Standard features include remote tare, peak or valley detection and memory, 10 or 24 Vdc sensor excitation, a short 4.1" (100 mm) deep case and removable screw terminals. Factory default is 4-20 mA input scaled to display 0-100.0 and 24 Vdc sensor excitation ..... \$ 195.00

<input type="checkbox"/>	-----	<b>POWER AND LED COLOR</b>	
0		Designates 115 Vac power and red LED display	.NC
1		Designates 230 Vac power and red LED display	.NC
2		Designates 115 Vac power and green LED display	.NC
3		Designates 230 Vac power and green LED display	.NC
4		Designates 10-32 Vdc power and red LED display	.\$ 95.00
5		Designates 10-32 Vdc power and green LED display	.95.00

## MODEL IDPH 4-DIGIT ECONOMICAL PANEL MOUNT pH INDICATOR, 0-14pH

IDPH -----The IDPH indicator will accommodate any pH electrode with BNC connector. Temperature compensation is either manual or automatic with use of any 1000 ohm platinum RTD. Standard features include scaling via the front panel pushbuttons, peak or valley detection and memory, 4 to 20mA output, 0.01pH resolution with 0.02pH accuracy a short 4.1" (100 mm) deep case ..... \$ 245.00

<input type="checkbox"/>	-----	<b>POWER AND LED COLOR</b>	
0		Designates 115 Vac power and red LED display	.NC
1		Designates 230 Vac power and red LED display	.NC
2		Designates 115 Vac power and green LED display	.NC
3		Designates 230 Vac power and green LED display	.NC
4		Designates 10-32 Vdc power and red LED display	.\$ 95.00
5		Designates 10-32 Vdc power and green LED display	.95.00

### ADD-ON OPTIONS (IDP)

<input type="checkbox"/>	FS-----	Special calibration configuration	.\$ 25.00
<input type="checkbox"/>	BL-----	Blank lens	.15.00

## MODEL IDT 4-DIGIT ECONOMICAL PANEL MOUNT THERMOCOUPLE METER

IDT-----The model IDT is an economical digital panel meter for use with thermocouples J, K, T, E, R, S, N, or J-DIN. Features include front panel selection of °F or °C, Max (peak) or Min (valley) recall, and thermocouple type. Connections for thermocouple input, power or external display hold are plug-in screw terminal connectors. User lockout of the programming keys is enabled by an internal jumper. The IDT features a depth of only 104mm (4.1") ..... \$ 225.00

J	Iron-Constantan	-346 to 1400°F	-210 to +760°C
K	Chromel-Alumel	-454 to 2500°F	-270 to +1372°C
T	Copper-Constantan	-454 to 752°F	-270 to +400°C
E	Chromel-Constantan	454 to 1832°F	-270 to +1000°C
R/S	Rh-Pt vs Pt	-58 to 3214°F	-50 to +1768°C
N	Ni Cr Si vs Ni Si Mg	-454 to 2372°F	-270 to +1300°C
J-DIN	Iron-Constantan	-328 to 1652°F	-200 to +900°C

<input type="checkbox"/>	-----	<b>POWER AND LED COLOR</b>	
00		Designates 115 Vac power and red LED display	.NC
10		Designates 230 Vac power and red LED display	.NC
20		Designates 115 Vac power and green LED display	.NC
30		Designates 230 Vac power and green LED display	.NC
40		Designates 10-32 Vdc power and red LED display	.\$ 95.00
50		Designates 10-32 Vdc power and green LED display	.95.00

## MODEL ICN77000

### PROCESS CONTROLLER, DUAL DISPLAY FOR THERMOCOUPLE, RTD, VOLTAGE OR CURRENT INPUTS IN A 1/6 DIN CASE

<input type="checkbox"/>	ICN77	-----	Dual displays for display of measured value and setpoint. Selectable preset tune, adaptive tune, auto-tune, PID, PI, PD. The control outputs are independently configurable for direct or reverse acting PID or ON/OFF operation. The ramp to setpoint feature defines the rate of rise to setpoint, minimizing thermal shock to the load during start-up. Max ramp and or Soak to 99.59 (HH.MM), Damping: 1 to 8 in unit steps. Input types include J, K, T, E, R, S, B, N, DIN-J, RTD 100ohm with alpha of 0.00385 or 0.00392 0-20mA, 0-100mV, 0-1V, and 0-10Vdc. Standard Alarm 1 output includes SPST relay, 5A @ 120Vac, 3A @ 240Vac.	
<input type="checkbox"/>		-----	<b>ROUND CUTOOUT (1 3/4" dia.)</b>	
	*		Omit for standard square 1/6 DIN cutout	
	R		Round cutout with detachable faceplate for fast, easy installation. Cutout diameter is 1.75" (44 mm).	.NC
<input type="checkbox"/>		-----	<b>PACKAGE CONFIGURATION</b>	
	3		INFINITY™ style NEMA 12 1/6 DIN bezel 1.89 sq. and standard 1/6 DIN 1.772" (45mm) sq. panel cutout	\$ 219.00
	5		NEMA 4 (IP-65) bezel 2.1 x 2.1" (53.4 x 53.4mm) and standard 1/6 DIN 1.772" (45mm) sq. panel cutout	.229.00
<input type="checkbox"/>		-----	<b>CONTROL OUTPUT 1</b>	
	2		Solid state relay SSR : 1A @ 120/240 Vac continuous	.NC
	3		Relay: form "C" 5A @ 120Vac, 3A @ 240Vac	.NC
	4		Pulsed 10Vdc @ 20mA (use for external SSR)	.NC
	5		Non-isolated 1 to 10Vdc or 0 to 20mA @500 ohm max	.NC
<input type="checkbox"/>		-----	<b>CONTROL OUTPUT 2</b>	
	2		Solid state relay SSR : 1A @ 120/240 Vac continuous	\$ 10.00
	3		Relay: 5A @ 120Vac, 3A @ 240Vac	.10.00
	4		Pulsed 10Vdc @ 20mA (use for external SSR)	.10.00
<input type="checkbox"/>		-----	<b>OPTIONAL OUTPUT</b>	
	-		None	.NC
	-A2		Second Alarm, SPST relay, 5A @ 120 Vac, 3A @ 240Vac	\$ 6.00
	-C2		Isolated RS 232, 300 to 19.2k baud	.50.00
	-C4		Isolated RS 485, 300 to 19.2k baud	.50.00
	-PV		Isolated Analog Output (scaled from process variable)	.65.00
	-RSP		Remote Setpoint selection	.25.00
<input type="checkbox"/>		-----	<b>POWER SUPPLY</b>	
	-		90 to 250 Vac/dc, 50 to 400 Hz (Standard)	.NC
<input type="checkbox"/>		-----	<b>ADD-ON OPTIONS</b>	
	RHS43		Arbored holesaw 43mm (1 1/16") for ICN77R meters	\$ 19.00
	TP4		Trimplate adapter to install 1/6 DIN meter in existing 1/4 DIN panel cutout	.19.00
	TP6		Trimplate adapter to install 1/6 DIN meter in existing 1/8 DIN panel cutout	.19.00
			Ordering Example: ICN77R323,C2 \$279: Round panel cutout with relay as second control output, RS-232 communication and solid state relay (SSR) as control output 1.	
			<b>Note:</b> The controller must be ordered completely configured. Options are not field installable	

## MODEL INFPT INFINITY® SERIES PROCESS TIMER/CONTROLLER

INFPT-----The INFPT multifunctional panel meter is setup as a clock/timer controller or stopwatch. The unit contains eight different time bases and has a built-in date function. The meter employs five controller output modes. . . . . \$ 395.00

<input type="checkbox"/>	-----	<b>POWER AND LED COLOR</b>	
0		Designates 115 Vac power and red LED display . . . . .	.NC
1		Designates 230 Vac power and red LED display . . . . .	.NC
2		Designates 115 Vac power and green LED display . . . . .	.NC
3		Designates 230 Vac power and green LED display . . . . .	.NC

<input type="checkbox"/>	-----	<b>BCD AND CONTROL OUTPUT(S)</b>	
0		Four optically isolated open-collector outputs . . . . .	.NC
1		Isolated parallel BCD output (BCD1) . . . . .	\$ 110.00
2		Isolated dual 7 A relays (REL1) . . . . .	.75.00
3		Isolated dual 7 amp and dual 1 amp relays (REL4) . . . . .	.175.00

<input type="checkbox"/>	-----	<b>SERIAL OUTPUTS</b>	
0		No serial output . . . . .	.NC
1		Isolated RS-232 serial output* (RS20) . . . . .	\$ 110.00
2		Isolated RS-485 serial addressable output* (RS40) . . . . .	.110.00

\*Includes 6' of interconnecting cable with telephone plug connectors.  
See serial connector accessories below for conversion to "D" type connectors.

<input type="checkbox"/>	-----	<b>ADD-ON OPTIONS</b>	
BB1		Battery back-up (25 hours, replaceable batteries) . . . . .	\$ 85.00
BL		Blank lens . . . . .	.15.00

<input type="checkbox"/>	-----	<b>ACCESSORIES</b>	
9SC2		9-pin serial connector with RJ-11 jack for RS-232 . . . . .	\$ 30.00
SC4		9-pin serial connector with RJ-12 jack for RS-485 . . . . .	.30.00
25SC2		25-pin serial connector with RJ-11 jack for RS-232 . . . . .	.30.00
25SC4		25-pin serial connector with RJ-12 jack for RS-485 . . . . .	.30.00
SP1		Split connector for RS-485 network . . . . .	.15.00

<input type="checkbox"/>	-----	<b>MOST POPULAR MODELS</b>	
INFPT-032		. . . . .	\$ 680.00
INFPT-000		. . . . .	.395.00

## MODEL INF7 RATE METER/TOTALIZER, BATCH CONTROLLER, CLOCK

INF7-----6-digit (999,999) meter which is user configurable as a rate meter and counter with or without integral square root extraction, batch controller or real-time clock. NEMA-4 front bezel, 5 open-collector outputs, programmable decimal point, and non-volatile memory are all standard. Scaling is via the front pushbuttons or serial communications port . . . . . \$ 395.00

<input type="checkbox"/>	-----	<b>POWER AND LED COLOR</b>	
0		Designates 115 V ac power and red LED display . . . . .	.NC
1		Designates 230 V ac power and red LED display . . . . .	.NC
2		Designates 115 V ac power and green LED display . . . . .	.NC
3		Designates 230 V ac power and green LED display . . . . .	.NC

<input type="checkbox"/>	-----	<b>INPUT(S) "Factory default calibration is 0-10,000 Hz = 0-10000 display"</b>	
0		Non-isolated inputs: TTL/5 V CMOS logic, NPN open-collector pulse sensor, or contact closure . . .NC	
1		Isolated pulse input: magnetic pick-ups with signals from 120 mV p-p 10-60 V rms, direct connection to NPN, PNP or NAMUR sensors. Includes electrically floating, regulated sensor excitation supplies rated 12V @ 70 mA or 8.2 V with 1 kohm source impedance. (P7A1) . . . . .	\$ 75.00
2		Isolated Analog input signal as follows: 0-1 mA, 4-20 mA, 0-5 V, 1-5V or 0-10 V dc. (P7A5A) . . .	.195.00

<input type="checkbox"/>	-----	<b>BCD AND CONTROL OUTPUT(S)</b>	
0		Five optically isolated open-collector outputs . . . . .	.NC
1		Isolated parallel BCD output (BCD1) . . . . .	\$ 110.00
2		Isolated dual 7 amp relays (REL1) . . . . .	.75.00
3		Isolated dual 7 amp and 1 amp relays (REL4) . . . . .	.175.00

<input type="checkbox"/>	-----	<b>ANALOG OUTPUT</b>	
0		No analog output . . . . .	.NC
1		Isolated analog output (0-20 mA, 4-20 mA, 0-5 V 1-5 V, 0-10 V) (AN02) . . . . .	\$ 110.00

<b>SERIAL OUTPUTS</b>	
0	No serial output . . . . .NC
1	Isolated RS-232 serial output* (RS20) . . . . . \$ 110.00
2	Isolated RS-485 serial addressable output* (RS40) . . . . .110.00
*Includes 6' cable with RJ telephone jack connectors.	

<b>OPERATING MODE(S)</b>	
Factory default setup is for standard rate/totalizer	
R	Rate totalize (factory default setting) . . . . .NC
Q	Rate/totalize with integral square root extraction . . . . .NC
B	Batch controller . . . . .NC
C	Clock . . . . .NC

<b>ADD-ON OPTIONS</b>	
FS	Special calibration configuration . . . . . \$ 25.00
BL	Blank lens . . . . .15.00

<b>ACCESSORIES</b>	
9SC2	9-pin serial connector for RS-232 . . . . . \$ 30.00
9SC4	9-pin serial connector for RS-485 . . . . .30.00
25SC2	25-pin serial connector for RS-232 . . . . .30.00
25SC4	25-pin serial connector for RS-48. . . . .30.00

**MODEL P5000 AND P6000A**  
**PROGRAMMABLE FREQUENCY METER, TACHOMETER, RATE METER, TIMER, TOTALIZER,**  
**ANALOG PROCESS METER, OR ANALOG INTEGRATING TOTALIZER**

P5	6-digit (999,999 count) Standard features include front panel with programming keys, protected TTL-level inputs, three open-collector control outputs, RS-232/20mA communications, screw-clamp connectors or power and signal, and "INFINITY™ STYLE FRONT-PANEL", 150 mm deep ½ DIN case (92 x 45mm) cutout. . . . . \$ 380.00
P6***A	Same as above, but in original case with removable non-sealed front panel . . . . .380.00

<b>POWER</b>	
0	Designates 115 V ac, 49/440 Hz power (P60A) . . . . .NC
1	Designates 230 V ac, 49/440 Hz power (P61A) . . . . .NC
4	Designates 9.5 to 32Vdc power (P64A) . . . . . \$ 80.00

<b>CONTROL OUTPUT OPTION</b>	
0	None . . . . .NC
1	Isolated, tri-state parallel BCD output. Includes 50-pin mass-termination connector (P6D1A) . . . . \$ 110.00
2	Dual 8A Form "C" SPDT relays. Includes screw clamp connector (P6T1A) . . . . .80.00
3	Analog output, 0-10 V, 0-20 mA or 4-20 mA, isolated and scalable. Includes screw-clamp cable connector. Default calibration: 000000/999900 = 4/20mA.. (P6U1A) . . . . .155.00

<b>SIGNAL CONDITIONER</b>	
Default calibration of 0 to 100 kHz = 0 to 100,000	
0	TTL/5Vcmos is standard. Single input for frequency and totalize modes . . . . .NC
1	Isolated signal conditioner, single-channel, with sensor excitation output. Shipped jumpered for zero debounce time, and 10 mV hysteresis (P6A1A) . . . . . \$ 95.00
2	Isolated signal conditioner, dual-channel, with sensor excitation output. Shipped jumpered for zero debounce time, and 10 mV hysteresis (P6A2A) . . . . .110.00
3	Non-isolated signal conditioner, single-channel, with sensor excitation output. Shipped jumpered for 15µs debounce time, and 40 mV hysteresis (P6A3) . . . . .65.00
4	Analog to frequency converter (Isolated) with 24 Vdc excitation output, for 0-1 mA, 4-20mA, 0-5V, 1-5V, or 0-10Vdc input. Ideal for Integrating Totalizer applications. Shipped jumpered for 4/20mA (P6A5B) . . . . .135.00

<b>ADD-ON OPTIONS</b>	
FS	Special calibration configuration . . . . . \$ 50.00
BL	Blank lens . . . . .15.00

<b>ACCESSORIES</b>	
FP1A	Front-panel without programming keys, (P6XXXA only) shipped in addition to normal front panel with keys. . . . .10.00

**MOST POPULAR MODELS**

P5001	Ratemeter or totalizer with isolated signal input . . . . . \$ 475.00
P5031	Ratemeter or totalizer with isolated signal input and analog output . . . . .630.00

## MODEL INFCTRA RATE METER/TOTALIZER

<input type="checkbox"/>	INFCTRA-----	The INFCTRA can easily be configured for rate measurements or as a totalizer via the front-panel buttons. Standard features include measurements from 0.5 Hz to 30 kHz, wide selection of signal inputs such as TTL, AC, contact and NAMUR and selection of sensor excitation . . . . .	\$ 260.00
<input type="checkbox"/>	-----	<b>POWER AND LED COLOR</b>	
	0	Designates 115 V ac power and red LED display . . . . .	.NC
	1	Designates 230 V ac power and red LED display . . . . .	.NC
	2	Designates 115 V ac power and green LED display . . . . .	.NC
	3	Designates 230 V ac power and green LED display . . . . .	.NC
<input type="checkbox"/>	-----	<b>CONTROL OUTPUT</b>	
	0	No output . . . . .	.NC
	1	Dual 6 amp, form C relays (RE1) . . . . .	\$ 75.00
<input type="checkbox"/>	-----	<b>SIGNAL OUTPUT</b>	
	0	No output . . . . .	.NC
	1	Analog output (AN1) . . . . .	\$ 100.00
<input type="checkbox"/>	-----	<b>DATA OUTPUT</b>	
	0	No output . . . . .	.NC
	1	RS-232 output* (RS1) . . . . .	\$ 60.00
		*Includes 6 foot interconnecting cable with RJ-11 jack connectors.	
<input type="checkbox"/>	-----	<b>CONFIGURATION</b>	
	R	Ratometer* . . . . .	.NC
	T	Totalizer* . . . . .	.NC
		*Factory setup is: Scale factor = 1 and Offset = 0 Other configurations will require "FS" option.	
<input type="checkbox"/>	-----	<b>ADD-ON OPTIONS</b>	
	FS	Special calibration configuration . . . . .	\$ 25.00
	BL	Blank lens . . . . .	15.00

## MODEL INFLDTA POSITION INDICATOR

<input type="checkbox"/>	INFLDTA-----	The INFLDTA is a high accuracy indicator/controller for use with the model LDT linear displacement transducer. Three open collector outputs let you preset high, low and go setpoints. The INFLDTA can be easily scaled in virtually any units of measure from the front panel. The full 6-digit display lets you measure accurately down to 1/1000 of an inch. Includes cable connectors for power and signal . . . . .	\$ 475.00
<input type="checkbox"/>	-----	<b>POWER AND LED COLOR</b>	
	0	Designates 115 V ac power and red LED display . . . . .	.NC
	1	Designates 230 V ac power and red LED display . . . . .	.NC
	2	Designates 115 V ac power and green LED display . . . . .	.NC
	3	Designates 230 V ac power and green LED display . . . . .	.NC
<input type="checkbox"/>	-----	<b>CONTROL OUTPUT OPTION</b>	
	0	None . . . . .	.NC
	1	Isolated, tri-state parallel BCD output, addressable three or six digits at a time. Includes 50-pin mass- termination connector (P6D1A) . . . . .	\$ 110.00
	2	Dual 8A Form "C" SPDT relays. Includes screw clamp connector (P6T1A) . . . . .	.80.00
	3	Analog output, 0-10 V, 0-20 mA or 4-20 mA, isolated and scalable. Includes screw-clamp cable connector. Default calibration: 000000/999900 = 4/20mA (P6U1A) . . . . .	155.00
<input type="checkbox"/>	-----	<b>ADD-ON OPTIONS</b>	
<input type="checkbox"/>	FS-----	Special calibration configuration . . . . .	\$ 25.00
<input type="checkbox"/>	BL-----	Blank lens. . . . .	15.00

## QUANTA® Q2000/Q9000 AND Q3000/Q8000 CONFIGURED SYSTEMS FOR END-USERS

Q ----- QUANTA® digital indicator/controller. Standard features include signal conditioning, linearized analog output, screw-terminals for signal and power, and 1/2 DIN case. Pricing shown includes configuration and calibration labor, normally provided by a NEWPORT distributor. Configure model number in this format: Q2041AVR1, SPC4.

<input type="checkbox"/>	<b>DISPLAY RESOLUTION AND CASE STYLE</b>		
2	±1,999 counts (3½ digits)		\$ 210.00
3	±1,999 with "INFINITY™ FAMILY BEZEL AND ADAPTER"		.240.00
9	±9,999 counts (4 digits)		.250.00
8	±9,999 with "INFINITY™ FAMILY BEZEL AND ADAPTER"		.280.00

<input type="checkbox"/>	<b>DISPLAY TYPE &amp; METER POWER</b>		
	LCD is only available on Q2000/Q3000 models.		
0	LED, 120 Vac (49/440 Hz) (BQ20 or BQ90)		.NC
1	LCD, 120 Vac (49/440 Hz) (BQ21)		\$ 50.00
2	LED, 240 Vac (49/440 Hz) (BQ22 or BQ92)		.NC
3	LCD, 240 Vac (49/440 Hz) (BQ23)		.50.00
4	LED, 9-32 Vdc (isolated) (BQ24 or BQ94)		.145.00
5	LCD, 9-32 Vdc (isolated) (BQ25)		.195.00
6	LED, 5 Vdc** (BQ26 or BQ96)		.130.00
7	LCD, 5 Vdc** (BQ27)		.180.00
8	LED, 24 Vac (BQ28 or BQ98)		.30.00
9	LCD, 24 Vac (BQ29)		.80.00
A	LED, 26-56 Vdc (isolated) (BQ2A or BQ9A)		.140.00
B	LCD, 26-56 Vdc (isolated) (BQ2B)		.190.00

\*\*Not available with AC AVG or True-RMS inputs.

<input type="checkbox"/>	<b>ANALOG OUTPUT ADDERS</b>		
	Max one analog output in addition to recorder output. Default scaling is for display of 0-1999 or 0-9999.		
0	±1 or ±2 V recorder output, non-isolated. (standard)		.NC
1	0-5 Vdc, non-isolated (BA01)		\$ 70.00
2	0-10 Vdc, non-isolated (BA01)		.70.00
3	0-1 mA, source or sink, non-isolated (BA01)		.70.00
4	4-20 mA, source or sink, non-isolated (BA01)		.70.00
5	4-20 mA, sink (high-compliance), non-isolated. (BA02)		.115.00
6	4-20 mA, ISOLATED (BA03)		.135.00

<input type="checkbox"/>	<b>CONTROL OUTPUT ADDERS</b>		
0	None		.NC
1	Dual-setpoint 10 A relay (BDT1)		\$ 165.00
2	Proportional 4-20 mA control, source or sink (BDP1)		.225.00
3	Time-proportional solid-state 2 A relay plus proportional 4-20 mA control, source or sink (BDP2)		.295.00
4	BCD (isolated, latched, buffered, byte addressable) Includes 50-pin mass-termination connector. (BDD2)		.155.00
5	Single-setpoint 10 A relay (BDS1)		.125.00

<input type="checkbox"/>	<b>SIGNAL CONDITIONING INPUT ADDERS</b>		
	Includes screw-terminal barrier strip for signal.		
	<b>DC voltage input</b>		
	Q2000/Q3000	Q8000/Q9000	(BSCA) Price
AVR1	± 199.9 mV	± 99.99 mV	\$ 40.00
AVR2	± 1.999 V	± 999.9 mV	.40.00
AVR3	± 19.99 V	± 9.999 V	.40.00
AVR4	± 199.9 V	± 99.99 V	.40.00
	<b>DC current input</b>		
	Q2000/Q3000	Q8000/Q9000	(BSCA) Price
BCR1	± 19.99 µA	± 9.999 µA	\$ 40.00
BCR2	± 199.9 µA	± 99.99 µA	.40.00
BCR3	± 1.999 mA	± 999.9 µA	.40.00
BCR4	± 19.99 mA	± 9.999 mA	.40.00
BCR5	± 199.9 mA	± 99.99 mA	.40.00
BCR6	± 1.999 A	± 999.9 mA	.40.00



<b>AC AVG voltage input</b>			
	Q2000/Q3000	Q8000/Q9000	(BSCC) Price
CVR2	199.9 mV	99.99 mV	\$ 65.00
CVR3	1.999 V	999.9 mV	.65.00
CVR4	19.99 V	9.999 V	.65.00
CVR5	199.9 V	99.99 V	.65.00
CVR6	650 V	650.0 V	.65.00
<b>AC AVG current input</b>			
	Q2000/Q3000	Q8000/Q9000	(BSCC) Price
DCR1	19.99 $\mu$ A	9.999 $\mu$ A	\$ 65.00
DCR2	199.9 $\mu$ A	99.99 $\mu$ A	.65.00
DCR3	1.999 mA	999.9 $\mu$ A	.65.00
DCR4	19.99 mA	9.999 mA	.65.00
DCR5	199.9 mA	99.99 mA	.65.00
DCR6	1.999 A	999.9 mA	.65.00
DCR7	5 Amp Current transformer. Default calibration: 5 A = 199.9 A		.5 A = 99.99 A . . . . .65.00
<b>True-RMS voltage input</b>			
	Q2000/Q3000	Q8000/Q9000	(BSCF) Price
FVR2	199.9 mV	99.99 mV	\$ 100.00
FVR3	1.999 V	999.9 mV	.100.00
FVR4	19.99 V	9.999 V	.100.00
FVR5	199.9 V	99.99 V	.100.00
FVR6	650 V	650.0 V	.100.00
<b>True-RMS current input</b>			
	Q2000/Q3000	Q8000/Q9000	(BSCF) Price
GCR1	19.99 $\mu$ A	9.999 $\mu$ A	\$ 100.00
GCR2	199.9 $\mu$ A	99.99 $\mu$ A	.100.00
GCR3	1.999 mA	999.9 $\mu$ A	.100.00
GCR4	19.99 mA	9.999 mA	.100.00
GCR5	199.9 mA	99.99 mA	.100.00
GCR6	1.999 A	999.9 mA	.100.00
GCR7	5 Amp Current transformer. Default calibration: 5 A = 199.9 A		.5 A = 99.99 A . . . . .100.00
<b>Frequency/rate input</b>			
Default calibration 100 mV hysteresis:			
	Q2000/Q3000	Q8000/Q9000	(BSCH1) Price
H	1000 Hz = 1000	1000 Hz = 0-9999	\$ 85.00
<b>Type J thermocouple input</b>			
	Q2000/Q3000	Q8000/Q9000	(BSCJ) Price
JDC1	-40 to +760°C	-40.0 to +760.0°C	\$ 80.00
JDF1	-40 to +1400°F	-40.0 to +999.9°F	.80.00
<b>Type K thermocouple input</b>			
	Q2000/Q3000	Q8000/Q9000	(BSCK) Price
KDC1	-40 to +1260°C	-40.0 to +999.9°C	\$ 80.00
KDF1	-40 to +1999°F	-40.0 to +999.9°F	.80.00
<b>Type T thermocouple input</b>			
	Q2000/Q3000	Q8000/Q9000	(BSCT) Price
TDC1	-184 to +371°C	-184.0 to +371.0°C	\$ 100.00
TDF1	-300 to +700°F	-300.0 to +700.0°F	.100.00
<b>RTD (Pt 100) input</b>			
Alpha of 0.00385, calibrated to IEC 751 (IPTS-68)			
	Q2000/Q3000	Q8000/Q9000	(BSCM) Price
MDC1	-200 to +830°C	-200.0 to +830.0°C	\$ 90.00
MDF1	-328 to +1526°F	-328.0 to +999.9°F	.90.00

## RTD input, high resolution

Alpha of 0.00385, calibrated to IEC 751 (IPTS-68)

	Q2000/Q3000	Q8000/Q9000	(BSCR) Price
RDC1	-199.9 to +199.9°C .....	Not recommended with Q8/Q9 .....	\$ 100.00
RDF1	-199.9 to +199.9°F .....	Not recommended with Q8/Q9 .....	100.00

## 3-wire ratio potentiometer input

	Q2000/Q3000	Q8000/Q9000	(BSCA) Price
NPR1	1000 = 1 kOhm .....	9999 = 1 kOhm .....	\$ 40.00
NPR2	1000 = 5 kOhm .....	9999 = 5 kOhm .....	40.00

## 2- or 4-wire resistance input

	Q2000/Q3000	Q8000/Q9000	(BSCR) Price
OOR1	19.99 ohm .....	Not recommended with Q8/Q9 .....	\$ 100.00
OOR2	199.9 ohm .....	Not recommended with Q8/Q9 .....	100.00
OOR3	1999 ohm .....	Not recommended with Q8/Q9 .....	100.00
OOR4	19.99 kOhm .....	Not recommended with Q8/Q9 .....	100.00

## Process signal input (e.g., 4-20 mA)

Default calibration:

	Q2000/Q3000	Q8000/Q9000	(BSCP) Price
P	4-20 mA = 0-100.0 .....	4-20 mA = 0-99.99 .....	\$ 60.00

## Process signal input plus excitation

Default calibration:

	Q2000/Q3000	Q8000/Q9000	(BSCE) Price
E	4-20 mA = 0-100.0 .....	4-20 mA = 0-99.99 .....	\$ 80.00

excitation set to 15 Vdc.

## Strain-gage/microvolt input plus excitation

Default calibration:

	Q2000/Q3000	Q8000/Q9000	(BSCS) Price
S	±100 mV = ±100.0 .....	±100 mV = ±99.99 .....	\$ 135.00

excitation set to 10 Vdc (30 mA max.)

## ADD-ON OPTIONS

<input type="checkbox"/>	FS-----	Custom calibration for H, P, E, S, DCR7 or GCR7 QXXXXH Specify min - max freq, min - max display and hysteresis level of 10 or 100 mV. QXXXXP Specify in volts or mA: min - max input, min - max display. QXXXXE Specify in volts or mA: min - max input, min - max display, and excitation of 10 or 15 Vdc. QXXXXS Specify in millivolts: min - max input, min - max display, and excitation of 1 to 10 Vdc. QXXXXDCR7, GCR7 Specify required full scale display" for a 5 A rms input. Specify decimal point position for display .....	\$ 30.00
<input type="checkbox"/>	G-----	Green LEDs for display .....	10.00
<input type="checkbox"/>	BL-----	Lens without NEWPORT logo in lieu of standard lens .....	15.00
<input type="checkbox"/>	BDD8A-----	BCD logic level adapter 5-50 V dc (external board) for BDD2. Ideal for interface to 24 V PLC port .....	45.00

## ACCESSORIES

<input type="checkbox"/>	05997A5-01-----	D1 36-pin solder terminal replacement connector .....	\$ 7.00
<input type="checkbox"/>	D3-----	50-pin solder-eyelet PCB edge connector for BCD .....	\$ 15.00
<input type="checkbox"/>	TP1A-----	Trimplate panel adapter. 4.3" x 2.5" (109 x 64 mm) Adapts 1/2 DIN cases to larger panel cutouts .....	30.00

Current Transformers: See "ACCESSORIES FOR METERS AND COMMUNICATIONS"

## MOST POPULAR MODELS

Q2001-AVR3	1/2 DIN, 3 1/2 digit DC voltmeter with dual relay outputs, red LED display configured to accept ±19.99 Vdc input and 120 Vac powered .....	\$ 415.00
Q2061-P	1/2 DIN, 3 1/2 digit DC process meter with dual relay outputs, red LED display configured to accept 4-20 mAdc input and 120 Vac powered .....	570.00
Q2061-JDF1	1/2 DIN, 3 1/2 digit thermometer for type J thermocouple with red LED display, 4-20 mA isolated output and dual setpoint 10 A relay and 120 Vac powered .....	590.00

## LARGE DISPLAY METERS

### L2Q SERIES 2¼" (57 mm) LED DISPLAY

### L4Q SERIES 4" (102 mm) LED DISPLAY

Large LED meter with bright uniform display segments. Features include adapter card for QUANTA® signal conditioners, universal 95-265 Vac switching power supply, power and signal connectors.

Configure model number in this format: L2Q2 R, 2, AVR1.

	<b>DISPLAY RESOLUTION AND SIZE</b>	
L2Q2	±1,999 counts (3½ digits) 2¼" (57 mm) LEDS	\$ 1415.00
L2Q9	±9,999 counts (4 digits) 2¼" (57 mm) LEDS Extruded aluminum case 10.4" x 4.72" x 4.61", 10.2" x 4.5" (258 x 114 mm) panel cutout	.1415.00
L4Q2	±1,999 counts (3½ digits) 4" (102 mm) LEDS	.2105.00
L4Q9	±9,999 counts (4 digits) 4" (102 mm) LEDS Extruded aluminum case 18.9" x 7.09" x 4.61", 8.59" x 6.78" (472 x 172 mm) panel cutout.	.2105.00

	<b>DISPLAY COLOR</b>	
R	Standard red LED	.NC
G	Green LED (not available on L4Q)	.NC

	<b>ANALOG OUTPUT ADDERS</b>	
	Max one analog output. Default scaling is for a display of 0-1999 or 0-9999.	
*	None	.NC
1	0-5 Vdc (BA01)	\$.70.00
2	0-10 Vdc (BA01)	.70.00
3	0-1 mA (BA01)	.70.00
4	4-20 mA (BA01)	.70.00

	<b>SIGNAL CONDITIONING INPUT ADDERS</b>	
	<b>DC voltage / current input</b>	
	L2Q2	L2Q9 (BSCA)
AVR1	± 199.9 mV	± 99.99 mV \$ 80.00
AVR2	± 1.999 V	± 999.9 mV .80.00
AVR3	± 19.99 V	± 9.999 V .80.00
AVR4	± 199.9 V	± 99.99 V .80.00
BCR1	± 19.99 µA	± 9.999 µA .80.00
BCR2	± 199.9 µA	± 99.99 µA .80.00
BCR3	± 1.999 mA	± 999.9 µA .80.00
BCR4	± 19.99 mA	± 9.999 mA .80.00
BCR5	± 199.9 mA	± 99.99 mA .80.00
BCR6	± 1.999 A	± 999.9 mA .80.00

	<b>AC AVG voltage / current input</b>	
	L2Q2	L2Q9 (BSCC)
CVR2	199.9 mV	99.99 mV \$ 95.00
CVR3	1.999 V	999.9 mV .95.00
CVR4	19.99 V	9.999 V .95.00
CVR5	199.9 V	99.99 V .95.00
CVR6	650 V	650.0 V .95.00
DCR1	19.99 µA	9.999 µA .95.00
DCR2	199.9 µA	99.99 µA .95.00
DCR3	1.999 mA	999.9 µA .95.00
DCR4	19.99 mA	9.999 mA .95.00
DCR5	199.9 mA	99.99 mA .95.00
DCR6	1.999 A	999.9 mA .95.00
DCR7	5 Amp Current transformer	Default calibration: .95.00
	5 A = 199.9 A	5 A = 99.99 A

	<b>True-RMS voltage/current input</b>	
	L2Q2	L2Q9 (BSCF)
FVR2	199.9 mV	99.99 mV \$ 140.00
FVR3	1.999 V	999.9 mV .140.00
FVR4	19.99 V	9.999 V .140.00
FVR5	199.9 V	99.99 V .140.00
FVR6	650 V	650.0 V .140.00

Continued on next page

## True-RMS voltage/current input

	L2Q2	L2Q9	(BSCF)
GCR1	19.99 $\mu$ A	9.999 $\mu$ A	140.00
GCR2	199.9 $\mu$ A	99.99 $\mu$ A	140.00
GCR3	1.999 mA	999.9 $\mu$ A	140.00
GCR4	19.99 mA	9.999 mA	140.00
GCR5	199.9 mA	99.99 mA	140.00
GCR6	1.999 A	999.9 mA	140.00
GCR7	5 Amp Current transformer.	Default calibration:	
	5 A = 199.9 A	.5 A = 99.99 A	140.00

## Frequency/rate input

H	1000 Hz = 1000	1000 Hz = 0-9999	\$ 125.00
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## Thermocouple input types J, K, and T

JDC1	-40 to +760°C	-40.0 to +760.0°C	(BSCJ) \$ 125.00
JDF1	-40 to +1400°F	-40.0 to +999.9°F	(BSCJ) 125.00
KDC1	-40 to +1260°C	-40.0 to +999.9°C	(BSCJ) 125.00
KDF1	-40 to +1999°F	-40.0 to +999.9°F	(BSCJ) 125.00
TDC1	-184 to +371°C	-184.0 to +371.0°C	(BSCJ) 125.00
TDF1	-300 to +700°F	-300.0 to +700.0°F	(BSCJ) 125.00

## RTD (Pt 100) input

Alpha of 0.00385, calibrated to IEC 751 (IPTS-68)

MDC1	-200 to +830°C	-200.0 to +830.0°C	(BSCM) \$ 125.00
MDF1	-328 to +1526°F	-328.0 to +999.9°F	(BSCM) 125.00
RDC1	-199.9 to +199.9°C	Not recommended	(BSCR) 140.00
RDF1	-199.9 to +199.9°F	Not recommended	(BSCR) 140.00

## 3-wire ratio potentiometer input

NPR1	1000 = 1 kOhm	9999 = 1 kOhm	\$ 80.00
NPR2	1000 = 5 kOhm	9999 = 5 kOhm	80.00

## 2- or 4-wire resistance input

ORR1	19.99 ohm	Not recommended	\$ 140.00
ORR2	199.9 ohm	Not recommended	140.00
ORR3	1999 ohm	Not recommended	140.00
ORR4	19.99 kOhm	Not recommended	140.00

## Process voltage or current input (e.g., 4-20 mA)

P	4-20 mA = 0-100.0	4-20 mA = 0-99.99	\$ 100.00
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## Process signal input plus excitation output

E	4-20 mA = 0-100.0 excitation set to 15 V dc	4-20 mA = 0-99.99	\$ 120.00
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## Strain-gage/microvolt input plus excitation

S	$\pm 100$ mV = $\pm 100.0$ excitation set to 10 V dc (30mA max.)	$\pm 100$ mV = $\pm 99.99$	175.00
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## ADD-ON OPTIONS

<input type="checkbox"/>	FS	Custom calibration for H, P, E, S, DCR7 or GCR7 L2QX, X, X, H Specify min/max freq, min/max display and hysteresis level of 10 or 100 mV. QXXXXP Specify in volts or mA: min - max input, min - max display. LQ2X, X, X, E Specify in volts or mA: min/max input, "min/max display, and excitation of 10 or 15 Vdc. L2QX, X, X, S Specify in millivolts: min/max input, min - max display, and excitation of 1 to 10 Vdc. LQ2X, X, X, DCR7, GCR7 Specify required full scale display for a 5 A rms input. Specify decimal point position for display	\$ 50.00
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<input type="checkbox"/>	A9	NEMA-4 housing for L2Q2, L2Q9*	285.00
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<input type="checkbox"/>	A10	NEMA-4 housing for L4Q2, L4Q9*	430.00
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\*Must be designated at time of order

## LARGE DISPLAY SERIAL ASCII DISPLAY METERS

### L2S 2¼" (57 mm) LED DISPLAY

### L4S 4" (102 mm) LED DISPLAY

Large displays with serial ASCII inputs. Characters may be numeric or limited alpha type symbols. It accepts serial ASCII data from an RS-232 or RS-422/485 links at baud rates of 300, 1200, 2400 or 9600. The protocol supports both point-to-point and multi-drop use with up to 31 addresses plus a master address allowing all units to receive simultaneously. Housed in a rugged aluminum housing for panel mounting or free standing. 95 to 265 Vac power with connectors.

<input type="checkbox"/>	<b>MODELS</b>	
L2S4	2¼" (57mm) 4-digit LEDs with serial ASCII input. Extruded aluminum case 10.4" x 4.72" x 5.06", 10.2" x 4.5" (258 x 114mm) panel cutout	\$ 1250.00
L2S6	2¼" (57mm) 6-digit LEDs with serial ASCII input. Extruded aluminum case 15.1" x 4.72" x 5.06", 14.9" x 4.5" (378 x 114mm) panel cutout	.1385.00
L4S4	4" (102mm) 4-digit LEDs with serial ASCII input. Extruded aluminum case 18.9" x 7.09" x 5.06", 18.66" x 6.85" (474 x 174mm) panel cutout	.1940.00
L4S6	4" (102mm) 6-digit LEDs with serial ASCII input. Extruded aluminum case 18.9" x 7.09" x 5.06", 25.85" x 6.85" (682 x 174mm) panel cutout	.2350.00
<input type="checkbox"/>	<b>DISPLAY COLOR</b>	
R	Red	.NC
G	Green (not available on L4S)	.NC

## LARGE DISPLAY TOTALIZER

### L2T 2¼" (57 mm) LED DISPLAY

### L4T 4" (102 mm) LED DISPLAY

Large displays for totalizing with a precise crystal controlled timebase for up to two (2) seconds. Input rates from 1 kHz (with user-selectable debouncing circuit) to 20 kHz can be accepted. A single alarm is a standard feature for such applications as over-speed or preset. 95 to 265 Vac power.

<input type="checkbox"/>	<b>MODELS</b>	
L2T4	Totalizer with 2¼" (57 mm) 4-digit LEDs	\$ 1345.00
L2T6	Totalizer with 2¼" (57 mm) 6-digit LEDs Extruded aluminum case 10.4" x 4.72" x 4.61 10.2" x 4.5" (258 x 114 mm) panel cutout.	.1480.00
L4T4	Totalizer with 4" (102 mm) 4-digit LEDs	.2035.00
L4T6	Totalizer with 4" (102 mm) 6-digit LEDs Extruded aluminum case 18.9" x 7.09" x 4.61 "18.59" x 6.78" (472 x 172 mm) panel cutout.	.2445.00
<input type="checkbox"/>	<b>DISPLAY COLOR</b>	
R	Red	.NC
G	Green (not available on L4S)	.NC
	<b>MOUNTING OPTIONS for L2S, L4S, L2T, L4T</b>	
<input type="checkbox"/>	A9 ----- NEMA-4 housing for L2S4, L2T4	\$ 285.00
<input type="checkbox"/>	A10 ----- NEMA-4 housing for L2S6, L2T6, L4S4, L4T4	.430.00

## LARGE DISPLAY METER WITH PARALLEL LOGIC INPUT

### L2P 2¼" (57 mm) LED DISPLAY & L4P 4" (102 mm) LED DISPLAY

Large digit remote displays of 4 or 6 characters which can be numeric or limited alpha type letters. These meters accept full parallel BCD or various bit parallel, character serial modes, and up to 15 units can share a bus. 95 to 265 Vac power.

<input type="checkbox"/>	<b>MODELS</b>	
L2P4	2¼" (57 mm) 4-digit LEDs with parallel logic input. Extruded aluminum case 10.4" x 4.72" x 5.06", 10.2" x 4.5" (258 x 114 mm) panel cutout	\$1470.00
L2P6	2¼" (57 mm) 6-digit LEDs with parallel logic input. Extruded aluminum case 15.1" x 4.72" x 5.06", 14.9" x 4.5" (378 x 114 mm) panel cutout	.1605.00
L4P4	4" (102 mm) 4-digit LEDs with parallel logic input. Extruded aluminum case 18.9" x 7.09" x 5.06", 18.66" x 6.85" (474 x 174 mm) panel cutout	.2160.00
L4P6	4" (102 mm) 6-digit LEDs with parallel logic input. Extruded aluminum case 18.9" x 7.09" x 5.06", 25.85" x 6.85" (682 x 174 mm) panel cutout	.2570.00

<input type="checkbox"/>	<b>DISPLAY COLOR</b>	
R	Red	.NC
G	Green (not available on L4P)	.NC

<input type="checkbox"/>	<b>INPUT LOGIC LEVELS</b>	
1	5 V	.NC
2	12 V	.NC
3	24 V (standard)	.NC
4	48 V	.NC

<input type="checkbox"/>	<b>MOUNTING OPTIONS</b>	
A9	NEMA-4 housing for L2P4.	\$ 285.00
A10	NEMA-4 housing for L2P6,L4P4	.430.00

### MOST POPULAR MODELS

L2P4,R,3	\$ 1470.00
L4P4,R,3	.2160.00

## LARGE DISPLAY METERS

### L2C CLOCK 2¼" (57 mm) LED DISPLAY L4C CLOCK 4" (102 mm) LED DISPLAY

Large LED display clocks, which can be configured for real-time or elapsed time indication. Units offering displays indicating minutes/seconds or hours/minutes (4-digit) and hours/minutes/seconds. Universal 95 to 265 Vac power.

<input type="checkbox"/>	<b>MODELS</b>	
L2C	Clock with 2¼" (57 mm) 4-digit LEDs. Extruded aluminum case 10.4" x 4.72" x 5.06" (with connectors) 10.2" x 4.5" (258 x 114 mm) panel cutout	\$ 1315.00
L2C	Clock with 2¼" (57 mm) 6-digit LEDs. Extruded aluminum case 15.1"x 4.72" x 5.06" (with connectors). 14.9" x 4.5" (378 x 114 mm) panel cutout	.1450.00
L4C	Clock with 4" (102 mm) 4-digit LEDs. Extruded aluminum case 18.9" x 7.09" x 5.06" (with connectors). 18.66" x 6.85" (474 x 174 mm) panel cutout	.1995.00
L4C	Clock with 4" (102 mm) 6-digit LEDs. Extruded aluminum case 18.9" x 7.09" x 5.06" (with connectors). 25.85" x 6.85" (682 x 174 mm) panel cutout	.2415.00

<input type="checkbox"/>	<b>DISPLAY FORMAT</b>	
0	HH:MM (4-digit)	.NC
1	MM:SS (4-digit)	.NC
2	HH:MM:SS (6-digit)	.NC

<input type="checkbox"/>	<b>DISPLAY COLOR</b>	
R	Red	.NC
G	Green (not available for L4C)	.NC

<input type="checkbox"/>	<b>CONTROL LINES</b>	
0	24 V (4-50 V) AC/DC or contact closure	.NC

### MOUNTING OPTIONS (Not available for L4C2)

<input type="checkbox"/>	A9	NEMA-4 housing for L2C0, L2C1	\$ 285.00
<input type="checkbox"/>	A10	NEMA-4 housing for L2C2, L4C0, L4C1	.430.00

### MOST POPULAR MODELS

L2C-2-R-0	Large 6-digit clock display in hours, minutes & seconds with 2¼" high red LEDs and 24 V control lines	\$ 1450.00
L4C-2-R-0	Large 6-digit clock display in hours, minutes & seconds with 4" high red LEDs, and 24 V control lines	.2415.00



## MODELS 201AN & 201A, 301AN & 301A

### LOW-COST 3½ DIGIT DC OR AC VOLTMETERS

<input type="checkbox"/>	-----	3½ digit ( $\pm 1,999$ count) voltmeter available for differential DC, single-ended DC, DC 3-wire ratio, or AC input. Standard features include auto-zero, auto-polarity, display hold and a 104 mm deep ½ DIN case (92 x 45 mm panel cutout) and PCB edge connector for power, signal and hold function.	
201AN		Power and signal pinout compatible with model 2001A	\$ 145.00
201A		Pinout compatible with Model 201	155.00
301AN		Power and signal pinout compatible with model 2001A. Includes "INFINITY™ STYLE BEZEL AND ADAPTER"	175.00
301A		Pinout compatible with Model 201. Includes "INFINITY™ STYLE BEZEL AND ADAPTER"	185.00

### INPUT RANGE

<input type="checkbox"/>	-----		
-2		$\pm 199.9$ mVdc	.NC
-3		$\pm 1.999$ Vdc	.NC
-4		$\pm 19.99$ Vdc	.NC
-5		$\pm 199.9$ Vdc	.NC
-AC5		199.9 Vac (201AN/301AN only, includes D4 connector)	\$ 35.00
-AC6		650 Vac (201AN/301AN only, includes D4 connector)	.35.00

### 3-WIRE RATIO INPUT IMPEDANCE (DC INPUT)

<input type="checkbox"/>	-----		
*		Standard	.NC
HZ		High impedance (100 mOhm)	\$ 5.00

### DECIMAL POINT

<input type="checkbox"/>	-----		
*		Programmable at D1 connector	.NC
DP1		1.999, internally-wired	\$ 5.00
DP2		19.99, internally-wired	5.00
DP3		199.9, internally-wired	5.00

### POWER

<input type="checkbox"/>	-----		
*		115 Vac, 50/60 Hz	.NC
C1		230 Vac, 50/60 Hz	.NC
C3C		Isolated 9-32 Vdc	\$ 120.00
C3E		Isolated 26-56 Vdc	120.00

### ADD-ON OPTIONS

<input type="checkbox"/>	-----		
G		Green LEDs for display.	\$ 10.00
<input type="checkbox"/>	-----		
D4		Screw-terminal barrier strip for power and signal (removes power and signal from D1) 201AN only	16.00
<input type="checkbox"/>	-----		
BL		Lens without NEWPORT logo	15.00

### MOST POPULAR MODELS

		201AN-4: DC voltmeter $\pm 19.99$ Vdc input	\$ 145.00
		201AN-AC5 AC voltmeter 0 to 199.9 Vac input	180.00
		201AN-3: DC voltmeter $\pm 1.999$ Vdc input	145.00

## MODEL 202A AND 302

### 3½ DIGIT METER FOR PROCESS, STRAIN, TEMPERATURE OR RESISTANCE

<input type="checkbox"/>	-----	3½ digit ( $\pm 1,999$ count) digital indicator. Includes field-scalability for process or strain gage inputs, linearization of thermocouple or RTD inputs, display hold, screw-terminal connections for power and signal, 104 mm deep ½ DIN case and PCB edge connector for power, signal and hold functions ..See Below	
<input type="checkbox"/>	-----	"INFINITY™ STYLE BEZEL AND ADAPTER"	Additional to Below \$ 30.00

### INPUT CONFIGURATION

<input type="checkbox"/>	-----	Shipped fully configured, scaled, and calibrated.	
-P		PROCESS RECEIVER Default calibration: 4-20 mA = 00.0-100.0	\$ 185.00
-E		PROCESS RECEIVER WITH EXCITATION OUTPUT Default calibration: 4-20 mA = 00.0-100.0 and 10-24 V excitation set to 24 Vdc (EB1)	245.00
-S		STRAIN/MICROVOLT METER WITH EXCITATION OUTPUT Default calibration: 0 - 100 mV = 00.0-100.0 and 10-24 V excitation set to 10 Vdc (SB1)	275.00

### THERMOCOUPLE INPUT

#### Type J, Iron-Constantan (Fe-CuNi)

-JC1		-138 to +760°C (JB1)	\$ 275.00
-JC2		-105.0 to +199.9°C (JB2)	275.00
-JF1		-216 to +1400°F (JB1)	275.00
-JF2		-157.0 to +199.9°F (JB2)	275.00

#### Type K, Chromel-Alumel (NiCr-NiAl)

-KC1		-105 to +1248°C (KB1)	\$ 275.00
-KC2		-105.0 to +199.9°C (KB2)	275.00
-KF1		-157 to +1999°F (KB1)	275.00
-KF2		-157.0 to +199.9°F (KB2)	275.00

## Type T, Copper-Constantan (Cu-CuNi)

-TC1	-112 to +400°C (TB1)	\$ 275.00
-TC2	-105.0 to +199.9°C (TB2)	.275.00
-TF1	-170 to +752°F (TB1)	.275.00
-TF2	-157.0 to +199.9°F (TB2)	.275.00

### RTD (Pt 100) INPUT

Alpha of 0.00385, calibrated to IEC 751 (IPTS-68)

-MC	-200 to +820°C (MB)	\$ 275.00
-MF	-328 to +1508°F (MB)	.275.00
-RC	-199.9 to +199.9°C (RB)	.275.00
-RF	-199.9 to +199.9°F (RB)	.275.00

### OHMMETER

-OR1	19.99 ohms full-scale (RB)	\$ 275.00
-OR2	199.9 ohms full-scale (RB)	.275.00
-OR3	1999 ohms full-scale (RB)	.275.00
-OR4	19.99 kOhms full-scale (RB)	.275.00

### POWER

*	115 Vac, 50/60 Hz	.NC
C1	230 Vac, 50/60 Hz	.NC
C3C	Isolated 9-32 Vdc	\$ 120.00
C3E	Isolated 26-56 Vdc	.120.00

### ADD-ON OPTIONS

FS	Custom calibration for models 202A-P, 202A-E, 202A-S, 302-P, 302-E, 302-S. 202A-P/302-P Specify in volts or mA: min/max input, and min/max display. 202A-E/302-E Specify in volts or mA: min/max input, and min/max display, and excitation of 10-24 Vdc. 202A-S/302-S Specify in millivolts: min/max input, and min/max display, and excitation of 10-24 Vdc. Specify decimal point position for display	\$.25.00
G	Green LEDs for display	.10.00
BL	Lens without NEWPORT logo	.15.00

### MOST POPULAR MODELS

202A-P:	DC volt or mA process receiver	\$.185.00
202A-E:	DC volt or mA process receiver with sensor excitation	.245.00
202A-S:	Strain gage indicator w/sensor excitation	.275.00
202A-JF1:	Type J T/C indicator, 1° resolution	.275.00
202A-KF1:	Type K T/C indicator, 1° resolution	.275.00

### MODEL 203A

#### 3½ DIGIT DC VOLTMETER WITH BCD OUTPUT

203A	3½ digit ( $\pm 1,999$ count) voltmeter available for DC or DC 3-wire ratio input. Standard features include LED display, auto-zero, display hold, BCD output, 1/8 DIN case and PCB edge connector for power, signal, non-isolated BCD and TTL handshake signals	\$.215.00
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#### INPUT RANGE

-2	$\pm 199.9$ mV	.NC
-3	$\pm 1.999$ V	.NC
-4	$\pm 19.99$ V	\$.10.00
-5	$\pm 199.9$ V	.10.00

#### 3-WIRE RATIO INPUT IMPEDANCE

*	Standard	.NC
HZ	High impedance (100 Mohm reference input only)	\$.10.00

#### UPPER-BOARD OUTPUT OPTIONS

*	None (unbuffered, non-isolated BCD is standard)*	.NC
F3A	Buffered, gated and stored BCD output	\$.109.00
F4A	Buffered, isolated, gated and stored BCD output	.124.00
F4M	F4A with 4-line binary addressing	.129.00

\*Includes PCB edge card connector.

### POWER

*	120 Vac, 50/60 Hz	.NC
C1	240 Vac, 50/60 Hz	.NC
C3	5 Vdc	\$.45.00
C3B	Isolated 9-32 Vdc	.120.00

### ADD-ON OPTIONS

D4	Screw-terminal barrier strip for power and signal(removes these inputs from PCB edge connector)	\$.16.00
BL	Lens without NEWPORT logo	.15.00
203A-3, D4:	DC voltmeter, $\pm 1.999$ V input	.231.00

## MODEL 204B

### 3 $\frac{3}{4}$ DIGIT METER FOR DC, AC, RMS, PROCESS STRAIN, OR MICROVOLTS DC

204B-----3 $\frac{3}{4}$  digit ( $\pm 3,999$  count) voltmeter available for DC, AC, process signal, or bridge input. Standard features include LED display, display hold, BCD output,  $\frac{1}{8}$  DIN case, and PCB edge connector for power, signal, non-isolated BCD & TTL handshake signals .....\$325.00

<input type="checkbox"/>	-----	<b>INPUT SIGNAL</b>	
*		DC voltage .....	.NC
AVG		AC voltage (includes D4 connector) .....	.\$155.00
RMS		True-RMS voltage (includes D4 connector) .....	.155.00
LA2		Gain-programmable preamplifier with active filter and bridge excitation .....	.164.00
LP2		Gain-programmable preamplifier with peak hold and bridge excitation .....	.184.00
-FS		Customer-specified offset and span. Specify min input, min reading; max input, max reading. Includes ER2 ( $\pm 5,999$ count) option .....	.50.00

<input type="checkbox"/>	-----	<b>INPUT RANGE</b>	
*		Not applicable for LA2, LP2 or -FS input signals .....	.NC

<input type="checkbox"/>	-----	<b>DC input signals</b>	
-1		$\pm 39.99$ mVdc .....	.\$15.00
-2		$\pm 399.9$ mVdc .....	.NC
-3		$\pm 3.999$ Vdc .....	.NC
-4		$\pm 39.99$ Vdc .....	.10.00
-5		$\pm 399.9$ Vdc .....	.10.00

<input type="checkbox"/>	-----	<b>AVG or RMS Input signals</b>	
		Includes D4 screw-terminal barrier strip.	
-VR1		39.99 mV ac or rms .....	.NC
-VR2		399.9 mV ac or rms .....	.NC
-VR3		3.999 Vac or rms .....	.NC
-VR4		39.99 Vac or rms .....	.NC
-VR5		399.9 Vac or rms .....	.NC
-CR1		39.99 $\mu$ A ac or rms .....	.NC
-CR2		399.9 $\mu$ A ac or rms .....	.NC
-CR3		3.999 mA ac or rms .....	.NC
-CR4		39.99 mA ac or rms .....	.NC
-CR5		399.9 mA ac or rms .....	.NC
-CR6		3.999 A ac or rms .....	.\$10.00
-CR7		Current transformer (CT) scaling for 5 A ac or rms. .... Specify reading at 5 A output of CT Specify decimal point position for display.	.40.00

<input type="checkbox"/>	-----	<b>DISPLAY RANGE OPTION</b>	
*		$\pm 3,999$ counts (standard) .....	.NC
ER1		$\pm 4,999$ counts (DC input signal only) .....	.\$20.00
ER2		$\pm 5,999$ counts (DC input signal only) .....	.20.00

<input type="checkbox"/>	-----	<b>ZERO-OFFSET ADJUSTMENT</b>	
*		Standard ( $\pm 0.35\%$ of span) .....	.NC
ZO		Extended ( $\pm 10\%$ of span) not available with FS .....	.\$40.00

<input type="checkbox"/>	-----	<b>OPTICAL ISOLATION</b>	
*		None (analog and digital grounds are tied together) .....	.NC
OI		Optical isolation between analog and digital grounds. Mutually exclusive with input option LP2 .....	.\$35.00

<input type="checkbox"/>	-----	<b>3-WIRE RATIO DC INPUT IMPEDANCE</b>	
*		Standard .....	.NC
HZ		High-impedance (100 Mohm reference input only) .....	.\$20.00

<input type="checkbox"/>	-----	<b>UPPER-BOARD OUTPUT OPTIONS</b>	
		Mutually exclusive with options LA2 and LP2	
*		None (unbuffered, non-isolated parallel BCD is standard)* .....	.NC
F3A		Buffered, gated and stored parallel BCD output* .....	.109.00
F3P		Buffered and stored parallel BCD with peak or valley hold* .....	.\$139.00
F4A		Buffered, isolated, gated, and stored parallel BCD* .....	.124.00
F4M		F4A with 4-line binary addressing* .....	.129.00
05		Linearized analog output of 0.5 mV/count for use with AC powered units only. D1, D3, D4 required** .....	.110.00
06		Single-setpoint controller with TTL and reed-relay outputs (programmed by customer at rear connector)** .....	.110.00
0506		Both 05 and 06 output options for use with AC powered units only. D4 required* .....	.160.00

\* Includes PCB edge connector.

<input type="checkbox"/>	<b>POWER</b>	
*	115 Vac, 60 Hz	.NC
C1	230 Vac, 50 Hz	.NC
C3	5 Vdc (optimized for 60 Hz rejection)	\$.45.00
C4	5 Vdc (optimized for 50 Hz rejection)	.45.00
C3B	Isolated 9-32 Vdc (optimized for 60 Hz rejection)	.120.00
C4B	Isolated 9-32 Vdc (optimized for 50 Hz rejection)	.120.00
C3D	Isolated 26-56 Vdc (optimized for 60 Hz rejection)	.120.00
C4D	Isolated 26-56 Vdc (optimized for 50 Hz rejection)	.120.00

**ADD-ON OPTIONS**

<input type="checkbox"/>	XZ	Extra zero, fixed, at right of display	\$.20.00
<input type="checkbox"/>	D3	Upper PCB edge connector for output option cards	.7.00
<input type="checkbox"/>	D4	Screw-terminal barrier strip for power and signal Removes power and signal from PCB edge connector	.16.00
<input type="checkbox"/>	BL	Lens without NEWPORT logo	.15.00

**MOST POPULAR MODELS**

204B-3,D4	\$.341.00
204B-AVG,VR5	.480.00
204B-RMS,CR7	.520.00

**MODEL 205 AND 305**

**3½ DIGIT MINIATURE METER FOR DC, PROCESS, PROCESS WITH EXCITATION OR TEMPERATURE**

<input type="checkbox"/>	205	3½ digit (±1,999 count) digital indicator with full-size digits and ¼ DIN case with 24 x 72 mm bezel and 22.2 x 68 mm panel cutout. Includes removable screw-clamp connectors for power and signal. Requires selection of signal type and range, display color, and power. Configure model number in this format: 205-PA1,R,C0,BL or
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<input type="checkbox"/>	305	Same as 205 with "INFINITY™ FAMILY BEZEL AND ADAPTER" The bezel adapts the meter to either a ½ OR ¼ DIN cutout. This case style is not field installable and must be specified at time of purchase	\$.30.00
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**SIGNAL TYPE AND RANGE**

Note: Different ranges within a signal type are jumper-selectable but require calibration.

**DC VOLTAGE INPUT**

AV2	±199.9 mV	\$.145.00
AV3	±1.999 V	.145.00
AV4	±19.99 V	.145.00
AV5	±199.9 V	.145.00

**PROCESS SIGNAL INPUT**

PA1-PV5 are jumpered for signal ranges shown. Default calibration is for display of 0.0-100.0

PA1	4-20 mA	\$.145.00
PV2	0-199.9 mV	.145.00
PV3	1-5 V	.145.00
PV4	0-10 V	.145.00
PV5	0-100 V	.145.00
FSP	Customer-specified zero and span. Specify min input, min reading; max input, max reading. Example: 4-20 mA = 50.0-150.0	.165.00

Specify decimal point position for display.

**PROCESS SIGNAL INPUT WITH EXCITATION OUTPUT**

Not available with DC power. Ranges EA1-EV5 are Jumpered for signal ranges shown and 24 V excitation. Default calibration is for display of 0.0-100.0

EA1	4-20 mA	\$.195.00
EV2	0-199.9 mV	.195.00
EV3	1-5 V	.195.00
EV4	0-10 V	.195.00
EV5	0-100 V	.195.00
FSE	Customer-specified zero, span and excitation output. Specify min input, min reading; max input, max reading; and excitation output (10 or 24 Vdc). Example: 4-20 mA = 50.0-150.0; excitation = 24 Vdc.	.215.00

Specify decimal point position for display.

## THERMOCOUPLE INPUT

	Type J, Iron-Constantan (FeCu-Ni)	
JC1	-210 to +760°C	\$.195.00
JC2	-199.9 to +199.9°C	195.00
JF1	-346 to +1400°F	.195.00
JF2	-199.9 to +199.9°F	.195.00
	Type K, Chromel-Alumel (NiCr-NiAl)	
KC1	-105 to +1372°C	\$.195.00
KC2	-199.9 to +199.9°C	.195.00
KF1	-157 to +1999°F	.195.00
KF2	-199.9 to +199.9°F	.195.00
	Type T, Copper-Constantan (Cu-CuNi)	
TC1	-105 to +400°C	\$.195.00
TC2	-199.9 to +199.9°C	.195.00
TF1	-157 to +752°F	.195.00
TF2	-199.9 to +199.9°F	.195.00
	Type E, Chromel-Constantan (NiCr-CuNi)	
EC1	-105 to +1000°C	\$.195.00
EC2	-199.9 to +199.9°C	.195.00
EF1	-157 to +1832°F	.195.00
EF2	-199.9 to +199.9°F	.195.00

## RTD (Pt 100) INPUT

Alpha of 0.00385, calibrated to IEC 751 (IPTS-68)

MC1	-200 to +850°C	\$.195.00
MF1	-328 to +1562°F	.195.00
MC2	-199.9 to +199.9°C	.195.00
MF2	-199.9 to +199.9°F	.195.00

## DISPLAY COLOR

<input type="checkbox"/>	R	Standard red LED	.NC
<input type="checkbox"/>	G	Green LED	.NC

## POWER

<input type="checkbox"/>	C0	115 Vac, 49/63 Hz	.NC
	C1	230 Vac, 49/63 Hz	.NC
	C2	7-32 Vdc, non-isolated (for -A & -P)	.NC
	C2A	9-26 Vdc, non-isolated (for temperature versions). Use ungrounded Thermocouples to avoid ground loops	.NC
	C3	5 Vdc, non-isolated (not compatible with -E or temperature versions)	.NC
	C5	100 Vac, 50/60 Hz	.NC
	C8	24 Vac, 50/60 Hz	.NC

## ADD-ON OPTIONS

<input type="checkbox"/>	BL	Lens without NEWPORT logo in lieu of standard lens	\$.15.00
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## ACCESSORIES

<input type="checkbox"/>	TP2	25 x 75 mm bezel adapter (25 x 68 mm panel cutout)	\$.30.00
<input type="checkbox"/>	TP3	Bezel adapter for 3/64 DIN to 1/8 DIN	\$.30.00

## MODEL 215

### 3 1/2 DIGIT DIFFERENTIAL DC VOLTMETER IN 1/16 DIN CASE, 5 VDC POWERED

<input type="checkbox"/>	215	3 1/2 digit ( $\pm 1,999$ count) 5 Vdc powered voltmeter available for differential, single-ended, or 3-wire ratio input. Standard features include auto-zero, auto-polarity, display hold, 72 mm deep 1/16 DIN case (92 x 22.2 mm panel cutout) and PCB edge connector for power, signal & display hold.	\$.95.00
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## INPUT RANGE

<input type="checkbox"/>	-2	$\pm 199.9$ mVdc	.NC
	-3	$\pm 1.999$ Vdc	.NC
	-4	$\pm 19.99$ Vdc	.NC
	-5	$\pm 199.9$ Vdc	.NC

## CASE MOUNTING

<input type="checkbox"/>	*	Spring clamp	.NC
	UC	U-shaped mounting clamp	\$.4.00

## DECIMAL POINT

<input type="checkbox"/>	*	Programmable at D1 connector	.NC
	DP1	1.999, internally-wired	\$.5.00
	DP2	19.99, internally-wired	.5.00
	DP3	199.9, internally-wired	.5.00

## ADD-ON OPTIONS

<input type="checkbox"/>	-G	Green LEDs for display	\$.10.00
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## MODELS 501, 502A ISOLATED, TWO-WIRE, TEMPERATURE TRANSMITTERS

- 501-----4-20 mA current transmitter for platinum 100-ohm RTD ( $\alpha = 0.00385$ ). Standard features include field-selectable zero and span, output protection to 120 Vac, two-or three-wire operation, input-to-output isolation, operation from 9 to 50 Vdc loop power, -40 to +85°C operating temperature, waterproof die-cast metal housing, screw-terminal barrier strip. For surface mount, 63.5 mm (2.50 in) relay track or for use with MXS1 and explosion-proof housings. Default calibration: 0 to 850°C = 4-20 mA .....\$335.00
- FS-----Custom scaling for standard non-linearizing 501. For use with variable resistance sources, specify ohms for 4 mA and 20 mA. Minimum span is 35 ohms, maximum span is 400 ohms, maximum zero offset is 365 ohms. For use with RTDs, specify metal and alpha of the RTD, and temperatures for 4 mA and 20 mA output .....25.00
- 502A-----4-20 mA current transmitter for type J, K, T, E thermocouples. Standard features include adjustable zero suppression and span, input-to-output isolation, operation from 9 to 50 Vdc loop power, -40 to +85°C operating temperature, waterproof die-cast metal housing and screw-terminal barrier strip for surface mount, 63.5 mm (2.50 in) relay track or for use with MXS1 and explosion-proof housings .....325.00

<input type="checkbox"/>	<b>THERMOCOUPLE TYPE</b>				
J	Type J	Iron-Constantan	(Fe-CuNi)	(0-500°C)	NC
K	Type K	Chromel-Alumel	(NiCr-NiAl)	(0-800°C)	NC
T	Type T	Copper-Constantan	(Cu-CuNi)	(0-400°C)	NC
E	Type E	Chromel-Constantan	(NiCr-CuNi)	(0-500°C)	NC

- OPEN-THERMOCOUPLE INDICATION** | | | | |- \* Upscale overrange (over 20 mA) .....NC
- DS Downscale overrange (under 4 mA) .....\$10.00
- FS-----Custom scaling. Specify temperatures corresponding to 4 mA and 20 mA output. Default for 4 mA is 0°C (all T/C types). Default for 20 mA is 500°C (type J), 800°C (type K), 400°C (types T and E) .....25.00

### ACCESSORIES

- CBP1-----Insulating cover for case top .....\$10.00
- MAT1-----Adapter plate for surface mount or 69.9 mm (2.75 in) relay track .....10.00
- MDT1-----Rail clamp for DIN relay track .....15.00
- EPH1-----External single-height environmental enclosure rated NEMA-7 (explosion-proof) and NEMA-4 (water-proof) with FM and CENELEC EEx II C certification. Includes MXS1 .....95.00
- EPW2-----External double-height environmental enclosure with window for one 500-series transmitter (on bottom) and one Model 508B loop-powered indicator (on top), for indicating two-wire 4-20 mA transmitter applications. Rated NEMA-7 (explosion-proof) and NEMA-4 (waterproof). Includes FM and CENELEC EEx d II C certification and internal mounting hardware(MXS2) ...135.00
- MXS1-----Spring retainers for custom-furnished explosion- proof housing for mounting in EPH1 .....12.00
- MXS2-----Spring retainers for explosion-proof housing for mounting in EPW2 .....12.00

## MODEL 504, 505, 506 ISOLATED, TWO-WIRE, 4-20 mA TRANSMITTERS

- 504-----Millivolt input transmitter for input spans from 5 to 100 mVdc. Standard features include adjustable zero suppression and span, input-to-output isolation, operation from 9 to 50 Vdc loop power, -40 to +85°C operating temperature, waterproof die-cast metal housing and screw-terminal barrier strip for surface count, 63.5 mm (2.50 in) relay track or for use with MXS1 and explosion-proof housings .....\$325.00
- 505-----Milliamp input transmitter for input spans from 5 to 100 mA. Standard features include 1 ohm input impedance, 5 to 100 mA input span, adjustable zero suppression and span, input-to-output isolation, operation from 9 to 50 Vdc loop power, -40 to +85°C operating temperature, waterproof die-cast metal housing and screw-terminal barrier strip for surface mount, 63.5 mm(2.50 in) relay track or for use with MXS1 and explosion-proof housings .....325.00
- 506-----Voltage input transmitter for input spans from 500 mV to 50 Vdc. Standard features include 1 MOhm input impedance, adjustable zero suppression and span, input-to-output isolation, operation from 9 to 50 Vdc loop power, -40 to +85°C operating temperature, water-proof die-cast metal housing, and screw-terminal barrier strip for surface mount, 63.5 mm (2.50 in) relay track or for use with MXS1 and explosion-proof housings
  - 1-----500 mV to 5 Vdc input span .....325.00
  - 2-----5 to 50 Vdc input span. ....325.00
- FS-----Custom scaling. Specify signals corresponding to 4 mA and 20 mA output. Defaults are: model 504 is 0 to 50 mV; model 505 is 4mA to 20mA model 506-1 is 0 to 5Vdc; 506-2 is 0 to 50Vdc model 506-2 is 0 Vdc to 50 Vdc .....25.00



## ACCESSORIES

<input type="checkbox"/>	CBP1	-----Insulating cover for case top	.....\$10.00
<input type="checkbox"/>	MAT1	-----Adapter plate for surface mount or 69.9 mm (2.75 in) relay track	.....10.00
<input type="checkbox"/>	MDT1	-----Rail clamp for DIN relay track	.....15.00
<input type="checkbox"/>	EPH1	-----External single-height environmental enclosure rated NEMA-7 (explosion-proof) and NEMA-4 (water-proof) with FM and CENELEC EEx d II C certification. Includes MXS1	.....95.00
<input type="checkbox"/>	EPW2	-----External double-height environmental enclosure with window for one 500-series transmitter (on bottom) and one Model 508B loop-powered indicator (on top), for indicating two-wire 4-20 mA transmitter applications. Rated NEMA-7 (explosion-proof) and NEMA-4 (waterproof). Includes FM and CENELEC EEx d II C certification and internal mounting hardware	.....135.00
<input type="checkbox"/>	MXS1	-----Spring retainers for custom-furnished explosion-proof housing for mounting in EPH1.	.....12.00
<input type="checkbox"/>	MXS2	-----Spring retainers for explosion-proof housing for mounting in EPW2.	.....12.00

## MODELS 508B AND 509

### TWO-WIRE, FM APPROVED, PROCESS LOOP INDICATOR IN NEMA-4 HOUSING

<input type="checkbox"/>	508B	-----Two-wire current-loop indicator that accepts 4-20 mA or 10-50 mA process signals and displays variables in percent or engineering units. Power is obtained from current loop. Standard features include -2000 to +2000 zero adjust, 3½ digit (±1999) liquid-crystal display plus selectable dummy right-hand zero (±19990), -40 to +85°C operating temperature, and waterproof die-cast metal housing	.....\$325.00
<input type="checkbox"/>	509	-----Same as above except computes square root of the input and displays the process variable in either percent or in engineering units	.....395.00

### MECHANICAL CONFIGURATION

<input type="checkbox"/>	-1	For mounting to flat surface or relay track. Connection via screw-terminal barrier strip (TB)	.....NC
<input type="checkbox"/>	-2	For mounting to EMT conduit. Connection via two 0.3 meter long #18 wires; ½-inch EMT male pipe fitting	.....\$20.00
<input type="checkbox"/>	-3	For mounting to NPT pipe. Connection via two 0.3 meter long #18 wires; ½-inch NPT male pipe fitting	.....20.00

### MOUNTING CONFIGURATION

		Case alone for surface mount, for 63.5 mm (2.50 in) relay track or for use with MXS1 and explosion-proof housings	.....NC
<input type="checkbox"/>	MAT1	Adapter plate for surface mount or 69.9 mm (2.75 in) relay track	.....\$10.00
<input type="checkbox"/>	MDT1	Rail clamp for DIN relay track	.....15.00

### CONFIGURATION AND CALIBRATION

<input type="checkbox"/>	*	Standard setup (readout from 000.0 to 100.0 for 4-20 mA input)	.....NC
<input type="checkbox"/>	FS	Custom configuration and calibration. Specify min input, min reading; max input, max reading. Include decimal point and dummy right-hand zero (if selected)	.....\$25.00

### SAFETY CERTIFICATION

<input type="checkbox"/>	*	FM IS certification label (standard)	
<input type="checkbox"/>	IS1	CENELEC EEx ia certification label (508-B only)	.....\$30.00

## ACCESSORIES

<input type="checkbox"/>	LB1	-----Loop break connector adapter provides continuity when device is removed from loop (508B-1 only)	.....\$15.00
<input type="checkbox"/>	MXS1	-----Spring retainers for 508B-1 or 509-1 in explosion-proof housing EPW1 or EPW3, or 500 Series transmitter in explosion-proof housing EPW2	.....12.00
<input type="checkbox"/>	MXS2	-----Spring retainers for 508B-1 or 509-1 in explosion-proof housing EPW2	.....12.00
<input type="checkbox"/>	EPW3	-----External single height environmental enclosure with window for 508B-1 or 509-1, rated NEMA-7 (explosion-proof) and NEMA-4 (waterproof). Certified by FM and CENELEC. Includes internal mounting hardware MXS1	.....115.00
<input type="checkbox"/>	EPW2	-----External double-height environmental enclosure with window for one 508A-1 or 509-1 and one 500 Series transmitter for indicating two-wire applications. Rated NEMA-7 (explosion-proof) and NEMA-4 (water-proof) Includes FM and CENELEC certification and internal mounting hardware MXS1 and MXS2	.....135.00

### MOST POPULAR MODEL

508B-1: 3½ digit LCD, 2-wire current loop indicator, configured to accept 4-20 mAdc input . . . \$325.00

## MODEL MTX

### MINIATURE THERMOCOUPLE TEMPERATURE TRANSMITTERS

<input type="checkbox"/>	MTX	-----MTX series transmitters convert thermocouple or RTD signals into a 4-20 mAdc signal output that is directly referenced to the mV input. The MTX transmitters mount directly within any of NEWPORT's standard protection heads for connection to your sensor	.....\$99.00
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### THERMOCOUPLE TYPE

<input type="checkbox"/>	J	Type J, Iron-Constantan	.....NC
<input type="checkbox"/>	K	Type K, Chromel-Alumel	.....NC
<input type="checkbox"/>	T	Type T, Copper-Constantan (ranges 05 and 10 excluded)	.....NC
<input type="checkbox"/>	E	Type E, Chromel-Constantan	.....NC
<input type="checkbox"/>	P	RTD Pt100, alpha 0.00385	.....NC

<input type="checkbox"/>	<b>RANGE</b>		
	<b>Thermocouple</b>	<b>RTD</b>	
01	0 to 200°F	-40 to 140°F	.NC
02	0 to 300°F	0 to 200°F	.NC
03	0 to 500°F	0 to 300°F	.NC
04	0 to 750°F	0 to 500°F	.NC
05	0 to 1000°F J,K,E only	0 to 750°F	.NC
06	0 to 100°C	0 to 1000°F	.NC
07	0 to 150°C	0 to 100°C	.NC
08	0 to 250°C	0 to 150°C	.NC
09	0 to 400°C	0 to 250°C	.NC
10	0 to 500°C J,K,E only	0 to 400°C	.NC

**ADD-ON OPTIONS**

<input type="checkbox"/>	FS-----	Special factory scaling	..... \$25.00
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**MODEL TAC80B  
TEMPERATURE-TO-ANALOG CONVERTER BATTERY OR AC POWERED**

The TAC80B temperature linearizers accept the input signal from a temperature sensor and output a linear 1 mV/degree analog output for use with recorders and other instruments. TAC80B models operate using a 9V battery (included) and may be AC powered using the optional TAC80B-AC adapter.

<input type="checkbox"/>	<b>INPUT TYPE AND RANGE</b>		
TAC80B-J	Type J, Iron-Constantan	-4 to 1112°F (-20 to 600°C)	..... \$99.00
TAC80B-K	Type K, Chromel-Alumel	-4 to 1832°F (-20 to 1000°C)	..... .99.00
TAC80B-T	Type T, Copper-Constantan	-4 to 572°F (-20 to 300°C)	..... .99.00

**ACCESSORIES**

<input type="checkbox"/>	TAC80B-AC -----	110 Vac adapter	..... \$12.00
<input type="checkbox"/>	TAC-CAB-----	Extension cable with 36" leads	..... 10.00
<input type="checkbox"/>	TAC80B-BJ-----	In-line banana plug	..... 15.00

**MOST POPULAR MODEL**

TAC80B-K	..... \$99.00
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**MODEL 558B  
TWO-WIRE, LOOP-POWERED PROCESS INDICATOR IN 1/8 DIN CASE**

<input type="checkbox"/>	558B-----	Two-wire current-loop indicator that accepts 4-20 mA or 10-50 mA process signals and displays variables in percent or engineering units. Power is obtained from current loop. Standard features include -2300 to +2200 zero adjust, 3½ digit (±1999) liquid-crystal display with selectable one or two dummy right-hand zeros, 0 to +55° operating range and 1/8 DIN case (92 x 45 mm panel cutout). Shipped calibrated for a readout of 00.0 to 100.0 for 4-20 mA input	.. \$150.00
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<input type="checkbox"/>	558B-ET-----	Two-wire current-loop indicator that accepts 4-20 mA or 10-50 mA process signals and displays variables in percent or engineering units. Power is obtained from current loop. Standard features include -2300 to +2200 zero adjust, 3½ digit (±1999) liquid-crystal display with selectable one or two dummy right-hand zeros, -40 to +85° extended operating range and 1/8 DIN case (92 x 45 mm panel cutout) Shipped calibrated for a readout of 00.0 to 100.0for 4-20 mA input	..... 185.00
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**ADD-ON OPTIONS**

<input type="checkbox"/>	BL-----	Lens without NEWPORT logo	..... \$15.00
<input type="checkbox"/>	FS-----	Custom configuration and calibration. Specify min input, min reading; max input, max reading. Include decimal point and any dummy right-hand zeros	..... 25.00
<input type="checkbox"/>	IS1-----	Intrinsic-safety certification with CENELEC EEx ia certification label.	..... 25.00

**MOST POPULAR MODELS**

558B: 1/8 DIN, 2-wire loop LCD indicator, 3½ digit LCD display	..... \$150.00
558B-ET: 1/8 DIN, 2-wire loop LCD indicator, 3½ digit LCD indicator with extended temperature range of -40 to +85°C	..... 185.00

**MODEL 2001A AND 3001  
4½ DIGIT DC VOLTMETER**

<input type="checkbox"/>	2001A-----	4½ digit (± 19,999 count) voltmeter available "for differential DC, single-ended DC, or DC 3-wire ratio input. Standard features include auto-zero, auto-polarity, display hold, and a 104 mm deep 1/8 DIN case (92 x 45 mm panel cutout). Includes PCB edge connector for power, signal and display hold or	..... \$195.00
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<input type="checkbox"/>	3001-----	4½ digit (± 19,999 count) voltmeter available for differential DC, single-ended DC, or DC 3-wire ratio input. Standard features include auto-zero, auto-polarity, display hold, with "INFINITY™ STYLE BEZEL ADAPTER", a 104 mm deep 1/8 DIN case (92 x 45 mm panel cutout). Includes PCB edge connector for power, signal and display hold	..... 225.00
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<input type="checkbox"/>	<b>INPUT RANGE</b>		
-3	± 1.9999 Vdc	.....	.NC
-4	± 19.999 Vdc	.....	.NC
-5	± 199.99 Vdc.	.....	.NC
<input type="checkbox"/>	<b>3-WIRE RATIO INPUT IMPEDANCE</b>		
*	Standard (6k ohm).	.....	.NC
HZ	High impedance (100M ohm)	.....	\$.50
<input type="checkbox"/>	<b>DECIMAL POINT</b>		
*	Programmable at D1 connector	.....	.NC
DP1	1.9999, internally wired	.....	\$.50
DP2	19.999, internally wired	.....	.50
DP3	199.99, internally wired	.....	.50
DP4	1999.9, internally wired	.....	.50
<input type="checkbox"/>	<b>POWER</b>		
*	115 V ac, 50/60 Hz	.....	.NC
C1	230 V ac, 50/60 Hz	.....	.NC
C3C	Isolated 9-32 Vdc	.....	\$.120.00
C3E	Isolated 26-56 Vdc	.....	.120.00
	<b>ADD-ON OPTIONS</b>		
G	Green LEDs for display	.....	\$.10.00
D4	Screw-terminal barrier strip for power and signal Removes these inputs from D1	.....	.16.00
BL	Lens without NEWPORT logo.	.....	.15.00
	<b>MOST POPULAR MODEL</b>		
	2001A-3,D4	.....	\$.211.00
	<b>MODEL 2002B AND 3002</b>		
	<b>4½ DIGIT METER FOR PROCESS, STRAIN, TEMPERATURE AND RESISTANCE</b>		
<input type="checkbox"/>	2002B	4½ digit (±19,999 count) digital indicator. Standard features include field scalability for process or strain-gauge inputs, thermocouple or RTD inputs, display hold, screw-terminals for power and signal, and a 104 mm deep ½ DIN case. or	
<input type="checkbox"/>	3002	Same as above except with "INFINITY™ STYLE BEZEL AND ADAPTER"	\$.30.00
<input type="checkbox"/>	<b>INPUT CONFIGURATION</b>		
-P	<b>PROCESS RECEIVER</b>		
	Default calibration: 4/20 mA = 00.00/100.00 (PB2)	.....	\$.270.00
-E	<b>PROCESS RECEIVER WITH EXCITATION OUTPUT</b>		
	Default calibration: 4/20 mA = 00.00/100.00 and 10-24 V excitation set to 24 Vdc (EB2)	.....	.285.00
-S	<b>STRAIN/MICROVOLT METER WITH EXCITATION OUTPUT</b>		
	Default calibration: 0/100 mV = 00.00/100.00 and 10-24 V excitation set to 10 Vdc (SB2)	.....	.310.00
	<b>THERMOCOUPLE INPUT (0.1° resolution)</b>		
	<b>Type J, Iron-Constantan (Fe-CuNi)</b>		
-JC1	-138.0 to +760.0°C.	.....(JB1)	\$.310.00
-JF1	-216.0 to +1400.0°F	.....(JB1)	310.00
	<b>Type K, Chromel-Alumel (NiCr-NiAl)</b>		
-KC1	-105.0 to +1248.0°C	.....(KB1)	\$.310.00
-KF1	-157.0 to +1999.9°F	.....(KB1)	310.00
	<b>Type T, Copper-Constantan (Cu-CuNi)</b>		
-TC1	-112.0 to +400.0°C	.....(TB1)	\$.310.00
-TF1	-170.0 to +752.0°F	.....(TB1)	310.00
	<b>RTD (Pt 100) input</b>		
	<b>Alpha of 0.00385, calibrated to IEC 751 (IPTS-68)</b>		
-MC	-200.0 to +820.0°C	.....(MB)	\$.305.00
-MF	-328.0 to +1508.0°F	.....(MB)	305.00
	<b>OHMMETER</b>		
-OR1	19.999 ohms full-scale	.....(RB)	\$.310.00
-OR2	199.99 ohms full-scale	.....(RB)	310.00
-OR3	1999.9 ohms full-scale	.....(RB)	310.00
-OR4	19.999 kOhms full-scale	.....(RB)	310.00
	<b>POWER</b>		
*	115 Vac, 50/60 Hz	.....	.NC
C1	230 Vac, 50/60 Hz	.....	.NC
C3C	Isolated 9-32 Vdc	.....	\$.120.00
C3E	Isolated 26-56 Vdc.	.....	.120.00

## ADD-ON OPTIONS

<input type="checkbox"/>	FS	-----	Custom calibration for models 2002B/3002-P, -E, -S, -P Specify in volts or mA: min/max input and display - E Specify in volts or mA: min/max input and min/max display, and excitation of 10-24 Vdc. 002B/3002-S Specify in millivolts: min/max input, min/max display, and excitation of 10-24 Vdc . . . . .	\$25.00
<input type="checkbox"/>	G	-----	Green LEDs for display . . . . .	10.00
<input type="checkbox"/>	BL	-----	Lens without NEWPORT logo . . . . .	15.00

## MOST POPULAR MODELS

2002B-P . . . . .	\$270.00
3002-P . . . . .	300.00
3002-S . . . . .	340.00
2002B-KF1 . . . . .	310.00

## MODEL 2003B

### 4½ DIGIT METER FOR DC, AC RMS, OR STRAIN

<input type="checkbox"/>	2003B	-----	4½ digit ( $\pm 19,999$ count) voltmeter available for DC, AC, true RMS, or bridge input. Standard features include LED display, display hold, BCD output, and ½ DIN case. Includes PCB edge connector for power, signal, non-isolated BCD, TTL handshake outputs . . . . .	\$390.00
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### INPUT SIGNAL

<input type="checkbox"/>	*	DC voltage . . . . .	.NC
	AVG	AC voltage (includes D4) . . . . .	\$160.00
	RMS	True RMS voltage (includes D4) . . . . .	160.00
	LA1	Gain-programmable preamplifier with active filter and bridge excitation supply . . . . .	214.00
	LP1	Gain-programmable preamplifier with peak-hold and bridge-excitation supply . . . . .	234.00

### INPUT RANGE

<input type="checkbox"/>	*	Not applicable for LA1, LP1 or FS input signals . . . . .	.NC
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### For DC input signal

-2	$\pm 199.99$ mVdc . . . . .	\$10.00
-3	$\pm 1.9999$ Vdc . . . . .	.NC
-4	$\pm 19.999$ Vdc . . . . .	10.00
-5	$\pm 199.99$ Vdc . . . . .	10.00

### For AVG or RMS input signal

-VR2	199.99 mVac or rms . . . . .	.NC
-VR3	1.9999 Vac or rms . . . . .	.NC
-VR4	19.999 Vac or rms . . . . .	.NC
-VR5	199.99 Vac or rms . . . . .	.NC
-CR2	199.99 $\mu$ A ac or rms . . . . .	.NC
-CR3	1.9999 mAac or rms . . . . .	.NC
-CR4	19.999 mAac or rms . . . . .	.NC
-CR5	199.99 mAac or rms . . . . .	.NC
-CR6	1.9999 A ac or rms. . . . .	\$15.00
-CR7	Current transformer (CT) scaling for 5 A ac or rms Specify desired display reading at 5 A input . . . . .	40.00

### TEMPERATURE COEFFICIENT

<input type="checkbox"/>	*	Standard ( $\pm 0.006\%$ of reading/ $^{\circ}$ C) . . . . .	.NC
	LT	High-stability ( $\pm 0.002\%$ of reading/ $^{\circ}$ C) (mutually exclusive with options AVG, RMS, LA1, LP1) . . . . .	\$25.00

### READ-RATE OPTION

<input type="checkbox"/>	*	Standard (4.3/s at 60 Hz, 3.6/s at 50 Hz) . . . . .	.NC
	FR	10 measurements/sec at 60 Hz power only (mutually exclusive with options AVG, RMS, LA1, LP1, F3P) . . . . .	\$25.00

### 3-WIRE RATIO DC INPUT IMPEDANCE

<input type="checkbox"/>	*	Standard . . . . .	.NC
	HZ	High impedance (1 G ohm reference input only). . . . .	\$20.00

### UPPER-BOARD OUTPUT OPTIONS

Mutually exclusive with LA1, LP1, F3P, F80A and FR.

<input type="checkbox"/>	*	None (unbuffered, non-isolated BCD is standard)* . . . . .	.NC
	F3A	Buffered, gated and stored BCD* . . . . .	\$109.00
	F3P	Stored peak or valley BCD output* . . . . .	139.00
	F4A	Buffered, isolated, gated and stored BCD* . . . . .	124.00
	F4M	F4A with 4-line binary addressing* . . . . .	129.00
	06	Single-setpoint controller with TTL-level and reed-relay outputs* . . . . .	110.00

<input type="checkbox"/>	<b>POWER</b>	
*	120 Vac (optimized for 60 Hz rejection)	.NC
C1	240 Vac (optimized for 50 Hz rejection)	.NC
C3	5 Vdc (optimized for 60 Hz rejection)**	.\$45.00
C4	5 Vdc (optimized for 50 Hz rejection)**	.45.00
	**Not available with AVG or RMS inputs.	

<input type="checkbox"/>	<b>ADD-ON OPTIONS</b>	
D4	Screw-terminal barrier strip for power and signal Removes power and signal from D1	.\$16.00
BL	Lens without NEWPORT logo	.15.00

## MODEL 2004

### 4¼ DIGIT METER FOR DC, AC, RMS, PROCESS OR STRAIN

<input type="checkbox"/>	2004	4¼ digit ( $\pm 39,999$ count) voltmeter available for DC, AC, true RMS, process signal, or bridge input. Standard features include LED display, display hold, BCD output, and ¼ DIN (92 x 45 mm panel cutout). Includes PCB edge connector for power, signal, non-isolated BCD and TTL handshake signals.	.\$425.00
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<input type="checkbox"/>	<b>INPUT SIGNAL</b>	
*	DC voltage	.NC
AVG	AC voltage (includes D4)	.\$160.00
RMS	True RMS voltage (includes D4)	.160.00
LA1	Gain-programmable preamplifier with active filter and bridge excitation	.214.00
LP1	Gain-programmable preamplifier with peak hold and bridge excitation	.234.00
-FS	Customer-specified offset and span. Specify min input, min reading; max input, max reading. Mutually exclusive with AVG, RMS, LA1, LP1	.60.00

<input type="checkbox"/>	<b>INPUT RANGE</b>	
*	Not applicable for LA1, LP1 or FS input signals	.NC
	<b>DC input signals</b>	
-2	$\pm 399.99$ mVdc	.\$10.00
-3	$\pm 3.9999$ Vdc	.NC
-4	$\pm 39.999$ Vdc	.10.00
-5	$\pm 399.99$ Vdc	.10.00
-VR2	399.99 mVac or rms	.NC
-VR3	3.9999 Vac or rms	.NC
-VR4	39.999 Vac or rms	.NC
-VR5	399.99 Vac or rms	.NC
-CR2	399.99 $\mu$ A ac or rms	.NC
-CR3	3.9999 mAac or rms	.NC
-CR4	39.999 mAac or rms	.NC
-CR5	399.99 mAac or rms	.NC
-CR6	3.9999 A ac or rms.	.15.00
-CR7	Current transformer (CT) scaling for 5 A ac or rms Specify desired display reading at 5 A input	.40.00

<input type="checkbox"/>	<b>EXTENDED RANGE OPTIONS</b>	
*	None, $\pm 39,999$ counts (standard)	.NC
ER1	$\pm 49,999$ counts (DC or FS signal only)	.\$50.00
ER2	$\pm 59,999$ counts (mutually exclusive with FS option)	.60.00
ER3	$\pm 69,999$ counts (mutually exclusive with FS option)	.70.00

<input type="checkbox"/>	<b>LEAST-SIGNIFICANT-DIGIT ROUND-OFF</b>	
*	Displays 0,1,2,3,4,5,6,7,8,9	.NC
CB2	Displays 0,2,4,6,8	.\$25.00
CB5	Displays 0,5.	.30.00

<input type="checkbox"/>	<b>3-WIRE RATIO DC INPUT IMPEDANCE</b>	
*	Standard.	.NC
HZ	High-impedance (100 Mohm reference input only)	.\$20.00

<input type="checkbox"/>	<b>UPPER-BOARD OUTPUT OPTIONS</b>	
	Mutually exclusive with LA1 and LP1.	
*	None (unbuffered, non-isolated BCD is standard)*	.NC
F3A	Buffered, gated and stored BCD output*	.\$109.00
F3P	Stored peak or valley BCD output*	.139.00
F4A	Buffered, isolated, gated and stored BCD output*	.124.00
F4M	F4A with 4-line binary addressing*	.129.00
06	Single-setpoint controller with TTL and 1A relay outputs (requires option D4)*	.110.00

\* Includes PCB edge card connectors.

<input type="checkbox"/>	<b>POWER</b>	
*	115 Vac (optimized for 60 Hz rejection)	.NC
C1	230 Vac (optimized for 50 Hz rejection)	.NC
C3	5 Vdc (optimized for 60 Hz rejection)**	.\$45.00
C4	5 Vdc (optimized for 50 Hz rejection)**	.45.00
	**Not available with AVG or RMS inputs.	

<input type="checkbox"/>	<b>ADD-ON OPTIONS</b>	
FS1	Custom calibration for 2004-AVG-CR7 or 2004-RMS-CR7 Specify full scale display for a 5 A rms input. Example: 5A rms = 3000.0	.\$25.00
D4	Screw-terminal barrier strip for power and signal Removes power and signal from D1	.16.00
BL	Lens without NEWPORT logo	.15.00

## MODEL 2520

### 4½ DIGIT DIFFERENTIAL DC VOLT/MICROVOLTMETER IN ¼ DIN CASE, 5 VDC POWERED

<input type="checkbox"/>	2520	4½ digit (± 19,999 count) 5 vdc powered voltmeter available for differential, single-ended, or 3-wire ratio inputs. Standard features include auto-zero, auto-polarity, display hold, and ¼ DIN case (92 x 22.2 mm panel cutout). Includes PCB edge connector for power, signal and display hold	.\$180.00
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<input type="checkbox"/>	<b>INPUT RANGE</b>	
-3	± 1.9999 vdc	.NC
-4	± 19.999 vdc	.NC
-5	± 199.99 vdc	.NC
-PA	Preamplifier with zero and span adjust	.180.00

<input type="checkbox"/>	<b>SPAN TEMPCO (TEMPERATURE COEFFICIENT)</b>	
*	Standard (±0.0075% of reading/°C)	.NC
LT	High-stability (±0.0002% of reading/°C)	.20.00

<input type="checkbox"/>	<b>UPPER BOARD OUTPUT OPTIONS</b>	
*	Character-serial BCD output	.NC
F2M	Parallel BCD output, three-state (mutually exclusive with PA). Includes PCB edge connector	.95.00

<input type="checkbox"/>	<b>CASE MOUNTING</b>	
*	Spring clamp	.NC
UC	U-shaped mounting clamp (not compatible with F2M)	.4.00

<input type="checkbox"/>	<b>SPAN TEMPCO (TEMPERATURE COEFFICIENT)</b>	
G	Green LEDs for display	.10.00

### MOST POPULAR MODEL

2520-4		.180.00
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## MODEL 6152A

### 5-DIGIT REMOTE DISPLAY WITH BCD INPUT

<input type="checkbox"/>	6152A	5-digit display that accepts parallel BCD input (5vdc TTL compatible) from DPM or programmable controller and provides a remote readout. Standard features include LED display an ¼ DIN case (92 x 46 mm panel cutout). Includes PCB connectors	.\$180.00
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<input type="checkbox"/>	<b>MOST-SIGNIFICANT DIGIT</b>	
*	Displays 0 through 9	.NC
ALN	Displays -1 with logic zero on polarity input	.15.00
ALP	Displays -1 with logic one on polarity input	.15.00

<input type="checkbox"/>	<b>LEAST-SIGNIFICANT DIGIT</b>	
*	Displays 0 through 9	.NC
AR	Displays three horizontal bars	.15.00

<input type="checkbox"/>	<b>POWER</b>	
*	120 Vac, 50/60 Hz	.NC
C1	240 Vac, 50/60 Hz	.NC
C3	5 Volt dc power	.10.00



## MODEL 6153 5-DIGIT REMOTE DISPLAY WITH BCD INPUT 5 Vdc POWERED IN 1/16 DIN CASE

<input type="checkbox"/>	6153	5-digit display that accepts parallel BCD input (5vdc TTL compatible) from DPM or programmable controller and provides a remote readout. Standard features include LED display an 1/16 DIN case (92 x 22.2 mm panel cutout). Includes PCB edge connector	\$180.00
<input type="checkbox"/>		<b>MOST-SIGNIFICANT DIGIT</b>	
	*	Displays 0 through 9	.NC
	ALN	Displays -1 with logic zero on polarity input	15.00
	ALP	Displays -1 with logic one on polarity input	15.00
<input type="checkbox"/>		<b>LEAST-SIGNIFICANT DIGIT</b>	
	*	Displays 0 through 9	.NC
	AR	Displays three horizontal bars	15.00
<input type="checkbox"/>		<b>CASE MOUNTING</b>	
	*	Spring clamp	.NC
	UC	U-shaped mounting clamp (not compatible with F2M)	4.00
<input type="checkbox"/>		<b>ADD-ON OPTIONS</b>	
	SPC116-R	NEMA-4 splash-proof lens cover for DIN case (includes screw clamps gasketed bezel and clear cover)	30.00

## MODEL 6155A 6-DIGIT REMOTE DISPLAY WITH BCD OR SERIAL ASCII (RS-232, RS-422, RS-485) INPUT

<input type="checkbox"/>	6155A	6-digit display accepts parallel BCD data at 24Vdc (optionally 5 Vdc) or serial ASCII data up to ±15 V. Includes cable connectors for power and signal	\$450.00
<input type="checkbox"/>		<b>INPUT TYPE</b>	
	-P	Parallel BCD input	195.00
	-S	Serial ASCII input	.NC
<input type="checkbox"/>		<b>INPUT LEVEL (6155A-P ONLY)</b>	
	5V	5 volt TTL compatible input levels	.NC
	24V	24 V (logic 0+ <+8.5 V, logic 1 = +20 to +30 Vdc)	.NC
<input type="checkbox"/>		<b>POWER</b>	
	*	120 Vac, 50/60 Hz	.NC
	C1	240 Vac, 50/60 Hz	.NC

## ACCESSORIES FOR METERS AND COMMUNICATIONS

BUMPER BAND® protective guards for INFINITY™ and 205 series meters. Rated from -40 to 120°C (-40 to 250°F). Provides additional moisture protection, and mechanical protection for face of meter. Colors allow you to quickly identify meters by function or indicate thermocouple type for temperature meters.

<input type="checkbox"/>		<b>BUMPER BANDS for 1/16 DIN INFINITY™ BEZEL</b>	
	INF-BB-GY/N	Gray protective guard for 1/16 DIN INFINITY™ bezel	\$5.00
	INF-BB-YL/N	Yellow protective guard for 1/16 DIN INFINITY™ bezel	5.00
	INF-BB-BK/N	Black protective guard for 1/16 DIN INFINITY™ bezel	5.00
	INF-BB-BL/N	Blue protective guard for 1/16 DIN INFINITY™ bezel	5.00
	INF-BB-GR/N	Green protective guard for 1/16 DIN INFINITY™ bezel	5.00
	INF-BB-RD/N	Red protective guard for 1/16 DIN INFINITY™ bezel	5.00
	INF-BB-OR/N	Orange protective guard for 1/16 DIN INFINITY™ bezel	5.00
	INF-BB-VL/N	Purple protective guard for 1/16 DIN INFINITY™ bezel	5.00
<input type="checkbox"/>	INF-BB-WH/N	White protective guard for 1/16 DIN INFINITY™ bezel	5.00
<input type="checkbox"/>		<b>BUMPER BANDS for 3/16 DIN BEZEL</b>	
	205-BB-GY/N	Gray protective guard	\$5.00
	205-BB-YL/N	Yellow protective guard	5.00
	205-BB-BK/N	Black protective guard	5.00
	205-BB-BL/N	Blue protective guard	5.00
	205-BB-GR/N	Green protective guard	5.00
	205-BB-RD/N	Red protective guard	5.00
	205-BB-OR/N	Orange protective guard	5.00
	205-BB-VL/N	Purple protective guard	5.00
<input type="checkbox"/>	205-BB-WH/N	White protective guard	5.00

## 19-INCH RACK PANELS WITH DIN CUTOUTS

Thickness: 3/16", Material: Aluminum alloy, Finish: Hammertone gray paint

RP18	3.47" high with one (1) 1/16 DIN panel cutout	\$45.00
RP28	3.47" high with two (2) 1/16 DIN panel cutouts	50.00
RP38	3.47" high with three (3) 1/16 DIN panel cutouts	55.00
RP23	1.72" high with two (2) 3/16 DIN panel cutouts	50.00

	<b>NEMA-4 SPLASH-PROOF LENS COVERS</b>	
	SPC364/N	$\frac{3}{4}$ DIN Cover . . . . . \$30.00
	SPC116-S-S/N	$\frac{1}{16}$ DIN Square Cover . . . . . 30.00
	SPC116-R/N	$\frac{1}{16}$ DIN Rectangular Cover . . . . . 30.00
	SPC14/N	$\frac{1}{4}$ DIN Square Cover . . . . . 30.00
	SPC18/N	$\frac{1}{8}$ DIN Rectangular Cover . . . . . 30.00
	SPC4	$\frac{1}{8}$ DIN Heavy Duty Cover with thumb screws . . . . . 30.00

	<b>DC CURRENT SHUNTS</b>	
	DCS-100-10	10A dc to 100mV external current shunt . . . . . \$19.00
	DCS-100-100	100A dc to 100mV external current shunt . . . . . 19.00
	DCS-100-1000	1000A dc to 100mV external current shunt . . . . . 19.00

	<b>AC CURRENT TRANSFORMERS</b>	
	CT series current transformers can be used with the INFCAC, IDRN-ACC, IDRX-ACC, and with QUANTA models ending in GCR7 and DCR7	

	<b>CURRENT TRANSFORMERS WITH 24" LEAD WIRES</b>	
	CTL-050005/N	Current Ratio 50:5, window diameter 0.50" . . . . . \$33.00
	CTL-050010/N	Current Ratio 100:5, window diameter 0.50" . . . . . 33.00
	CTL-094020/N	Current Ratio 200:5, window diameter 0.94" . . . . . 26.50
	CTL-113005/N	Current Ratio 50:5, window diameter 1.13" . . . . . 14.65
	CTL-113010/N	Current Ratio 100:5, window diameter 1.13" . . . . . 20.50
	CTL-113020/N	Current Ratio 200:5, window diameter 1.13" . . . . . 20.50
	CTL-113030/N	Current Ratio 300:5, window diameter 1.13" . . . . . 20.50
	CTL-156005/N	Current Ratio 50:5, window diameter 1.56" . . . . . 24.00
	CTL-156010/N	Current Ratio 100:5, window diameter 1.56" . . . . . 24.00
	CTL-156020/N	Current Ratio 200:5, window diameter 1.56" . . . . . 24.00
	CTL-156050/N	Current Ratio 500:5, window diameter 1.56" . . . . . 24.00
	CTL-156100/N	Current Ratio 1000:5, window diameter 1.56" . . . . . 32.00
	CTL-205005/N	Current Ratio 50:5, window diameter 2.06" . . . . . 24.00
	CTL-206010/N	Current Ratio 100:5, window diameter 2.06" . . . . . 24.00
	CTL-206020/N	Current Ratio 200:5, window diameter 2.06" . . . . . 24.00
	CTL-206050/N	Current Ratio 500:5, window diameter 2.06" . . . . . 24.00
	CTL-206100/N	Current Ratio 1000:5, window diameter 2.06" . . . . . 32.00

**CURRENT TRANSFORMERS, WITH MOUNTING BRACKET AND SCREW TERMINALS**

	CTT-050005/N	Current Ratio 50:5, window diameter 0.50" . . . . . \$33.00
	CTT-050010/N	Current Ratio 100:5, window diameter 0.50" . . . . . 33.00
	CTT-094020/N	Current Ratio 200:5, window diameter 0.94" . . . . . 26.50
	CTT-113005/N	Current Ratio 50:5, window diameter 1.13" . . . . . 21.00
	CTT-113010/N	Current Ratio 100:5, window diameter 1.13" . . . . . 21.00
	CTT-113020/N	Current Ratio 200:5, window diameter 1.13" . . . . . 21.00
	CTT-113030/N	Current Ratio 300:5, window diameter 1.13" . . . . . 21.00
	CTT-156005/N	Current Ratio 50:5, window diameter 1.56" . . . . . 24.00
	CTT-156010/N	Current Ratio 100:5, window diameter 1.56" . . . . . 24.00
	CTT-156020/N	Current Ratio 200:5, window diameter 1.56" . . . . . 24.00
	CTT-156050/N	Current Ratio 500:5, window diameter 1.56" . . . . . 24.00
	CTT-156100/N	Current Ratio 1000:5, window diameter 1.56" . . . . . 32.00
	CTT-205005/N	Current Ratio 50:5, window diameter 2.06" . . . . . 24.00
	CTT-206010/N	Current Ratio 100:5, window diameter 2.06" . . . . . 24.00
	CTT-206020/N	Current Ratio 200:5, window diameter 2.06" . . . . . 24.00
	CTT-206050/N	Current Ratio 500:5, window diameter 2.06" . . . . . 24.00
	CTT-206100/N	Current Ratio 1000:5, window diameter 2.06" . . . . . 32.00

**CURRENT TRANSFORMERS, SPLIT CORE WITH SCREW TERMINALS**

	CTSC-205505/N	Current Ratio 500:5, window dimensions 2.00 x 5.50" . . . . . \$180.00
	CTSC-205510/N	Current Ratio 2000:5, window dimensions 4.50 x 4.50" . . . . . 200.00
	CTSC-204520/N	Current Ratio 500:5, window dimensions 4.50 x 5.50" . . . . . 208.00
	CTSC-204550/N	Current Ratio 2000:5, window dimensions 2.00 x 4.50" . . . . . 228.00
	CTSC-081902/N	Current Ratio 200:5, window dimensions 0.80 x 1.95" . . . . . 228.00

<input type="checkbox"/>	<b>RJ TO 9 or 25-PIN sub-D SERIAL PORT CONNECTORS</b>	
9SC2	RJ-11 to 9-pin serial adapter for RS-232	\$30.00
9SC4	RJ-12 to 9-pin serial adapter for RS-485 or RS-422	.30.00
25SC2	RJ-11 to 25-pin serial adapter for RS-232	.30.00
25SC4	RJ-12 to 24-pin serial adapter for RS-485 or RS-422	.30.00
SP1	RJ12 male to two (2) RJ12 female for daisy chain of RS-485 or RS-422 networks	15.00

<input type="checkbox"/>	<b>PANEL ADAPTERS</b>	
TP4	Trimplate adapter to install 1/16" DIN meter in existing 1/4" DIN panel cutout	\$19.00
TP6	Trimplate adapter to install 1/16" DIN meter in existing 3/8" DIN panel cutout	19.00

<input type="checkbox"/>	<b>COMPACT BENCH STAND</b>	
INF-TBS	Bench stand with handle for INFINITY® SERIES METERS	\$25.00

## OS1550 SERIES

### 2-WIRE INFRARED TEMPERATURE TRANSMITTER

The OS1550 series have an exceptionally fast time-constant of 10 msec (0 to 63.2%), which makes them ideal for use in fast changing processes or to capture quick temperature changes. Typical applications include: low temperature measurement in textile manufacturing, printing, paper laminating, thick plastics or measuring products heated by radiant heat sources.

<input type="checkbox"/>	<b>Temperature Range</b>	<b>Spectral Response</b>	
OS1551-A-200C	0 to 200°C (32 to 392°F)	.8 to 14 microns	\$690.00
OS1551-A-550C	200 to 550°C (392 to 1022°F)	.8 to 14 microns	.690.00
OS1552-A-816C	538 to 816°C (1000 to 1500°F)	.091 to 1.05 microns	.690.00
OS1552-A-1371C	816 to 1371°C (1500 to 2500°F)	.091 to 1.05 microns	.690.00

### ACCESSORIES/OPTIONS

<input type="checkbox"/>	OS1550-MB	----Mounting Bracket	\$50.00
<input type="checkbox"/>	OS1550-MN	----Mounting Nut	.50.00
<input type="checkbox"/>	OS1550-AP	----Air Purge Collar	125.00
<input type="checkbox"/>	OS1550-WC	----Water Cooling Jacket	225.00
<input type="checkbox"/>	OS1550-LS	----Laser Sight	195.00

**Ordering Example: OS1552-A-816C** is a high temperature infrared transmitter **\$690**.  
**Accessories: OS1550-MB** mounting bracket **\$50** and **OS1550MN** mounting nut **\$15**.

## OS523 & OS524 Series

### RUGGED HIGH PERFORMANCE HANDHELD INFRARED THERMOMETER.

With a combination of powerful features, the new portable and rugged high temperature OS523/524 series infrared thermometers offer solutions for many non-contact temperature measurement applications. Emissivity adjustable in 0.01 increments, provides versatility when measuring a variety of surfaces. A custom backlit LCD display provides dual digital display of both current, max, min, difference or average temperatures simultaneously. This provides the user with more information at a glance. It also has standard features like high and low audible and visual alarms, 1mV/Deg analog output, RS-232 output and temperature data storage.

<input type="checkbox"/>	O523-1	-----Pyrometer, Accuracy: ±1% rdg, Range: -18 to 1370°C (0 to 2500°F), 30:1 Distance to Spot Size	\$1095.00
<input type="checkbox"/>	OS523-1-SC	----Infrared Pyrometer w/Sighting Scope Accuracy: ±1% rdg, Range: -18 to 1370°C (0 to 2500°F), 30:1 Distance to Spot Size	1195.00
<input type="checkbox"/>	OS523-2	-----Infrared Pyrometer, Accuracy: ±1% rdg, Range: -18 to 1370°C (0 to 2500°F), 60:1 Distance to Spot Size	1095.00
<input type="checkbox"/>	OS523-2-SC	----Infrared Pyrometer w/Sighting Scope, Accuracy: ±1% rdg, Range: -18 to 1370°C (0 to 2500°F), 60:1 Distance to Spot Size	1195.00
<input type="checkbox"/>	OS523-3	-----Pyrometer, Accuracy: ±1% rdg, Range: -18 to 1370°C (0 to 2500°F), Close Focus	1095.00
<input type="checkbox"/>	OS523-3-SC	----Infrared Pyrometer w/Sighting Scope Accuracy: ±1% rdg, Range: -18 to 1370°C (0 to 2500°F), Close Focus	1195.00

<input type="checkbox"/>	OS524 -----Temp Infrared Pyrometer, ±1% rdg 538 to 2482°C (1000 to 4500°F) 110:1 Distance to Spot Size . . .1295.00
<input type="checkbox"/>	OS524-SC -----Temp Infrared Pyrometer w/Sighting Scope, ±1% rdg 538 to 2482°C (1000 to 4500°F) 110:1 Distance to Spot Size . . .1395.00
<input type="checkbox"/>	LS-120 -----Laser Dot for OS523 and OS524 Series . . .100.00
<input type="checkbox"/>	LS-723-1 -----Laser Circle for OS523-1 . . .150.00
<input type="checkbox"/>	LS-723-2 -----Laser Circle for OS523-2 . . .150.00
<input type="checkbox"/>	LS-724 -----Laser Circle for OS524 . . .150.00
<input type="checkbox"/>	CAL-3-IR -----NIST Traceable Calibration . . .125.00

## OS530 Series

### HANDHELD INFRARED THERMOMETERS WITH ADJUSTABLE EMISSIVITY, BUILT-IN LASER SIGHTING WITH 12 POINT CIRCLE

Handheld infrared thermometers for temperatures to 1600°F (870°C). Standard features include adjustable emissivity from 0.01 to 1.00, differential, min, max, and average temperature indication, high alarm with audible buzzer and display indicator, 1mV per degree analog output, trigger lock, keypad calibration.

<input type="checkbox"/>	OS531 -----Infrared thermometer with 0 to 750°F(-18 to 400°C) range. 10:1 distance to spot size ratio. Comes complete with four AA batteries, 110 Vac adapter and operations manual. . . . .395.00
<input type="checkbox"/>	OS532 -----Infrared thermometer with 0 to 1000°F(-18 to 540°C) range. 10:1 distance to spot size ratio. Comes complete with four AA batteries, thermocouple input, 110Vac adapter and operations manual. . . . .550.00
<input type="checkbox"/>	OS533 -----Infrared thermometer with 0 to 1000°F(-18 to 540°C) range. 20:1 distance to spot size ratio. Same features as OS532 with additional features: High and Low alarm, Ambient Target Temperature compensation, RS-232 output, and printer output. . . . .895.00
<input type="checkbox"/>	OS534 -----Infrared thermometer with 0 to 1600°F (-18 to 870°C) range. 30:1 distance to spot size ratio. Includes data storage along with all features of the OS533 . . . . .1095.00
<input type="checkbox"/>	OS520-ADAPTER-110V/N -----110 Vac adapter with integral wall plug . . . . .25.00
<input type="checkbox"/>	OS520-ADAPTER-220V/N -----220 Vac adapter with integral wall plug . . . . .25.00
<input type="checkbox"/>	OD520-RCC-----Hard carrying case . . . . .30.00
<input type="checkbox"/>	88013K/N -----Surface probe, up to 815°C (1500°F) . . . . .110.00
<input type="checkbox"/>	88001K/N -----Surface probe, up to 482°C (900°F) . . . . .110.00
<input type="checkbox"/>	CAL-3-IR -----NIST Traceable Calibration . . . . .125.00

## BB701

### INFRARED CALIBRATOR: HOT/COLD BLACKBODY CALIBRATION SOURCE

The BB701 Blackbody Calibrator is a high performance, rugged, portable calibrator for infrared pyrometers. The BB701 Hot/Cold model has a range of 0 to 300°F. The BB701's ability to provide a stable, repeatable cold calibration point allows the user to calibrate or test most infrared pyrometers quickly and accurately without having to prepare an ice bath. Both models come with an RS-232 computer interface which allows computer control of the setpoints for automatic test applications. An NIST traceable calibration certificate is also provided

<input type="checkbox"/>	BB701-----Calibration source, 110 V, range: 0 to 100°F . . . . . \$2995.00
<input type="checkbox"/>	BB701-230VAC-----Calibration source, 230 V, range: 0 to 100°F . . . . .2995.00

## BB703

### INFRARED CALIBRATOR: MINIATURE BLACKBODY CALIBRATION SOURCE

The BB703 is a high performance, rugged, miniature blackbody calibrator. It is used for infrared pyrometer calibrations with a temperature range of ambient +20 to 752°F (ambient +11 to 398°C). With its unique miniature design and built-in 1.125" target aperture, the BB703 is an ideal and economical infrared calibrator for any laboratory or field service application.

<input type="checkbox"/>	BB703-----120 Vac blackbody calibration source . . . . . \$895.00
<input type="checkbox"/>	BB703-230VAC-----230 Vac blackbody calibration source . . . . . \$895.00

## BB704

### INFRARED CALIBRATOR: BLACKBODY CALIBRATION SOURCE WITH LARGE 4" OPENING

The BB704 is a blackbody temperature reference source which is adjustable over a range of 100 to 398°C (212 to 752°F) and accurate to ±0.5°C of the indicated temperature. It has a built-in digital temperature controller to provide accurate, stable temperatures as well as to provide the temperature readings of the cavity. The heated cavity provides a target of known temperature and emissivity, and virtually any infrared pyrometer with a spot size diameter of 4" or smaller can be calibrated. The compact, portable design allows for quick and easy calibration setups.

<input type="checkbox"/>	BB704-----120 Vac blackbody calibration source . . . . . \$2495.00
<input type="checkbox"/>	BB704-230VAC-----230 Vac blackbody calibration source . . . . . \$2495.00

## MODEL BB-4A HIGH TEMPERATURE BLACKBODY CALIBRATION SOURCE

BB-4A-----The BB-4A is a blackbody temperature reference which is adjustable over a range of 100 to 982°C (212 to 1800°F) and accurate to ±1.0% of the indicated temperature. It has a built-in digital temperature controller to provide accurate, stable temperatures as well as to provide the temperature reading of the cavity. The heated cavity provides a target of known temperature and emissivity, and virtually any infrared pyrometer with a spot size diameter less than 0.88" can be calibrated. . . . . \$3495.00

## MODEL BB705 HIGH TEMPERATURE BLACKBODY CALIBRATION SOURCE

BB705-----The BB705 is a blackbody temperature reference which is adjustable over a range of 100 to 1200°C (212 to 2160°F) and accurate to ±1.0% of the indicated temperature. It has a built-in digital temperature controller to provide accurate, stable temperatures as well as to provide the temperature reading of the cavity. The heated cavity provides a target of known temperature and emissivity, and virtually any infrared pyrometer with a spot size diameter less than 1.75" can be calibrated. . . . . \$9995.00

## MODEL BB701/BB702 HOT/COLD BLACKBODY CALIBRATION SOURCES

The BB701 / BB702 Blackbody Calibrators are high performance, rugged, portable calibrators for infrared pyrometers. The BB701 Hot/Cold model has a range of 0 to 300°F. The BB701's ability to provide a stable, repeatable cold calibration point allows the user to calibrate or test most infrared pyrometers quickly and accurately without having to prepare an ice bath. Both models come with an RS-232 computer interface which allows computer control of the setpoints for automatic test applications. An NIST traceable calibration certificate is also provided.

BB701-----Calibration source, 110 V, range: 0 to 100°F . . . . . \$2995.00  
 BB701-230VAC--Calibration source, 230 V, range: 0 to 100°F . . . . . 2995.00  
 BB702-----Calibration source, 110 V, range: 90 to 420°F . . . . . \$1995.00  
 BB702-230VAC--Calibration source, 230 V, range: 90 to 420°F . . . . . 1995.00

## MODEL CT485B MICROPROCESSOR-BASED TEMPERATURE/HUMIDITY RECORDER

Self-contained temperature/ humidity recorder. Includes package of 120 charts(20 of each style), remote mounting sensor and 6' extension cord, AC adapter/power cord, 4 "D" cell batteries, wall mounting hardware, temperature pen (red), humidity pen (blue) and operator's manual.

CT485B-110V-W-AL--Computer room white recorder, 110 Vac, with alarms and relay contact. . . . . \$650.00  
 CT485B-110V-G-AL --Gray recorder, 110 Vac, with alarms and relay contact . . . . . 642.00

### ADD-ON OPTIONS

CAL-LOCK-----Calibration lockout cover . . . . . \$ 25.00

### ACCESSORIES

CT485-PR -----Red pen, temperature . . . . . \$5.00  
 CT485-PB-----Blue pen, humidity . . . . . 5.00  
 CT485-PS-----Pen set, red and blue . . . . . 10.00  
 CT485-PS-6-----Pen set, red and blue (six-pack) . . . . . 52.00  
 CT485-CDF -----100 charts, 1 day, °F (double-sided) . . . . . 19.00  
 CT485-CDC -----100 charts, 1 day, °C (double-sided) . . . . . 19.00  
 CT485-CWF-----100 charts, 7 day, °F (double-sided) . . . . . 19.00  
 CT485-CWC -----100 charts, 7 day, °C (double-sided) . . . . . 19.00  
 CT485-CMF -----100 charts, 32 day, °F (double-sided) . . . . . 19.00  
 CT485-CMC-----100 charts, 32 day, °C (double-sided) . . . . . 19.00



## ACCESSORIES continued

<input type="checkbox"/>	CT485-CSP -----120 charts, 20 of each style (double-sided) . . . . .	\$15.00
<input type="checkbox"/>	CT485-MW*-----20 charts museum/art gallery, 7 day (double-sided) . . . . .	20.00
<input type="checkbox"/>	CT485-MM*-----20 charts museum/art gallery, 32 day (double-sided) . . . . .	20.00
<input type="checkbox"/>	CT485-HW*-----20 charts hospitals, 7 day (double-sided) . . . . .	20.00
<input type="checkbox"/>	CT485-HM*-----20 charts hospitals, 32 day (double-sided) . . . . .	20.00
<input type="checkbox"/>	CT485-LW*-----20 charts labs/clean room, 7 day (double-sided) . . . . .	20.00
	*Insert "C" for charts reading in °C. "F" for °F	
<input type="checkbox"/>	CT485-LM*-----20 charts labs/clean room, 32 day (double-sided) . . . . .	20.00
<input type="checkbox"/>	CT485-PW*-----20 charts computer room/office, 7 day (double-sided) . . . . .	20.00
<input type="checkbox"/>	CT485-PM*-----20 charts computer room/office, 32 day (double-sided) . . . . .	20.00
<input type="checkbox"/>	CT485B-RP-W -----Replacement temperature/RH probe white . . . . .	80.00
<input type="checkbox"/>	CT485B-RP-G-----Replacement temperature/RH probe gray . . . . .	80.00
<input type="checkbox"/>	CT485-ADAP-110 -----Replacement 110Vac adapter (included with recorder) . . . . .	23.75
<input type="checkbox"/>	CT485-ADAP-220 -----220Vac adapter . . . . .	23.75
<input type="checkbox"/>	CT485-CABLE-6G -----Gray 6-foot extender cable for probe . . . . .	23.75
<input type="checkbox"/>	CT485-CABLE-6W -----White 6-foot extender cable for probe . . . . .	23.75

## MOST POPULAR MODEL

CT485B-110V-W-AL ---Temperature/humidity recorder with alarm output . . . . .	650.00
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## MODEL CT585B

### MICROPROCESSOR-BASED PRESSURE & TEMPERATURE RECORDER

The CT585B sets a new standard in temperature and pressure measurement.

This completely self-contained recorder is microprocessor-based for accurate indication of temperature and pressure, along with the current time and storage of peak values (max. and min.). Each function of the recorder is easily accessible from the front panel. The user may select 1, 7 or 32 day operation on the large, 8" (200mm) chart, and may program the digital display for (2 to 100 PSIG), 2 to 120°F or 49°C indication.

<input type="checkbox"/>	CT585B-110V-W-AL -White recorder, 110 Vac adapter, 4 "D" batteries, 100 PSIG transmitter with alarm and relay contact. .	\$700.00
<input type="checkbox"/>	CT585B-110V-G-AL -Gray recorder, 110 Vac adapter, 4 "D" batteries, 100 PSIG transmitter with alarm and relay contact .	700.00

## ADD-ON OPTIONS

<input type="checkbox"/>	CAL-LOCK-----Calibration lockout cover . . . . .	\$25.00
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## ACCESSORIES

<input type="checkbox"/>	CT585-PS-----Pen set, Red and Green pens . . . . .	\$10.00
<input type="checkbox"/>	CT485-PR -----Red pen, temperature. . . . .	5.00
<input type="checkbox"/>	CT585-PG -----Green pen. . . . .	5.00
<input type="checkbox"/>	CT585-PS-6-----Package of six (6) Pen set, Red and Green pens . . . . .	52.00
<input type="checkbox"/>	CT585-CDC-----100 charts, °C, 1 day (double-sided) . . . . .	19.00
<input type="checkbox"/>	CT585-CDF -----100 charts, °F, 1 day (double-sided) . . . . .	19.00
<input type="checkbox"/>	CT585-CWC -----100 charts, °C, 7 day (double-sided) . . . . .	19.00
<input type="checkbox"/>	CT585-CWF-----100 charts, °F, 7 day (double-sided) . . . . .	19.00
<input type="checkbox"/>	CT585-CMC-----100 charts, °C, 32 day (double-sided) . . . . .	19.00
<input type="checkbox"/>	CT585-CMF -----100 charts, °F, 32 day (double-sided) . . . . .	19.00
<input type="checkbox"/>	CT585-CSP -----120 charts, assortment, 20 ea. of the above charts . . . . .	19.00
<input type="checkbox"/>	CT585-RP -----Replacement pressure and temperature sensor . . . . .	185.00
<input type="checkbox"/>	CT485B-AC-110-G --Replacement 110Vac adapter (included with recorder) . . . . .	23.75
<input type="checkbox"/>	CT485B-ADAP-E-G -220Vac adapter for Europe . . . . .	23.75



## MODEL CTpH

### MICROPROCESSOR-BASED pH & TEMPERATURE RECORDER

pH/temperature circular recorder. pH range 0.2 to 12.0, temperature 0 to 100°C. In line or submersible pH sensor with PPS (Tyton) body, 3/4 NPT thread. Double-sided circular charts for 1, 7, and 32 day recording. The recorder operates from AC adapter or for up to 32 days from internal "D" (4-each) batteries. Upon AC power failure, the recorder will automatically switch to internal battery operation. When the recorder switches from DC to AC or AC to DC operation, Pens will re-zero indicating time of power interruption.

CTPH-110V-G-AL --Gray recorder, 110 Vac adapter, 4 "D" batteries, pH probe with alarm and relay contact . . . . \$970.00

#### ADD-ON OPTIONS

CT485B-CAL-LOCK-Calibration lockout cover . . . . . \$25.00

#### ACCESSORIES

CT585-PS-----Pen set, Red and Green pens . . . . . \$10.00

CT485-PR -----Red pen, temperature . . . . . 5.00

CT585-PG -----Green pen. . . . . 5.00

CT585-PS-6-----Package of six (6) Pen set, Red and Green pens . . . . . 52.00

CTPH-CDC-----100 charts, 1 day (double-sided) . . . . . 19.00

CTPH-CWC-----100 charts, 7 day (double-sided) . . . . . 19.00

CTPH-CMC-----100 charts, 32 day (double-sided) . . . . . 19.00

CTPH-BNC -----BNC pH Adapter . . . . . 99.00

CTPH-Probe ----Replacement pH probe . . . . . 225.00

CT485-AC-110-G--Replacement 110Vac adapter (included with recorder) . . . . . 23.75

CT485-ADAP-E-G - 220Vac adapter for Europe . . . . . 23.75

CT485-CABLE-6G --6ft (2m) remote sensor cable . . . . . 23.75

PHA-4, -7, -10 ---Buffers Solutions . . . . . \$4.80

## NOMAD™

### DATALOGGER FOR HUMIDITY AND TEMPERATURE

OM-NOMAD-----The NOMAD dataloggers are low-cost easy-to-use and portable. The NOMAD can record temperature, or humidity and temperature data in non-volatile memory. Data collection is accomplished by connecting the NOMAD to an RS-232 computer port.

#### DATALOGGER

T-16 Temperature only, 16K memory (16,192 samples) . . . . . \$135.00

RH-32 Temperature + humidity, 32K memory (16,192 samples). . . . . 185.00

#### ACCESSORIES/OPTIONS

OM-NOMAD-RTD  
-----External temperature sensor with 6' cable . . . . . \$45.00

OM-NOMAD-CP9  
-----RS-232 cable for IBM PC, 9-pin female connector . . . . . 9.00

OM-NOMAD-CP25  
-----RS-232 cable for IBM PC, 25-pin female connector . . . . . 9.00

OM-NOMAD-CM  
-----RS-232 cable for Macintosh . . . . . 9.00

OM-NOMAD-WIN  
-----Windows and DOS software, 3.25" disk . . . . . 49.00

OM-NOMAD-MAC  
-----Macintosh software . . . . . 49.00

OM-NOMAD-BATT  
-----Replacement battery . . . . . 12.00

#### ORDERING EXAMPLE

**OM-NOMAD-RH-32** Temperature/Relative Humidity datalogger 32k memory . . . . . \$185.00

**OM-NOMAD-WIN** Windows and DOS software . . . . . 49.00

**OM-NOMAD-CP9** CABLE FOR IBM PC with 9-pin connector . . . . . 9.00

## PHC-212 SERIES

### pH CONTROLLER / RECORDER

The PHC series of pH recorders and controllers provides a reliable method of monitoring, controlling and recording pH levels of various industrial and chemical processes. Featuring an extensive list of Standard features, the PHC series includes a digital display, digital switches for alarm setpoints, remote mount pH 4 to 20 mA transmitter, 6 A solid state relays, front panel adjustable dead band pots and NEMA 4X enclosure.

<input type="checkbox"/>	PHR-212-----	<b>pH RECORDER AND MONITOR</b> Records 2-12 pH values on a 30 day strip chart. Single pH probe input. Order probe separately . . . . .	\$995.00
<input type="checkbox"/>	PHC-212-----	<b>pH CONTROLLER AND MONITOR</b> Two setpoints for high and low, adjustable dead-band, two 6 A SSR. Accepts one pH probe input through supplied pH transmitter . . . . .	1125.00
<input type="checkbox"/>	PRC-212-----	<b>SINGLE INPUT pH CONTROLLER, RECORDER AND MONITOR</b> Two setpoints for high and low, adjustable dead-band, two 6 A SSR. Accepts pH probe through supplied pH transmitter. Includes 30 day strip chart recorder. . . . .	1765.00
<input type="checkbox"/>	PRCD-212-----	<b>pH MONITOR/CONTROLLER WITH SEPARATE RECORDER INPUT</b> Two setpoints for high and low, adjustable dead-band, two 6 A SSR. Accepts one pH probe input through supplied pH transmitter. A separate probe is used to drive the 30 day strip chart recorder. Ideal for recorder monitoring of downstream pH . . . . .	1850.00
<input type="checkbox"/>	PHCD-212-----	<b>DUAL pH CONTROLLER AND MONITOR</b> Each controller has two setpoints for high and low, adjustable dead-band, two 6 A SSR. Accepts two pH probes through supplied pH transmitters . . . . .	1955.00
<input type="checkbox"/>	PHCD-212-ORP ---	<b>DUAL pH/ORP CONTROLLER AND MONITOR</b> Each controller has two setpoints for high and low, adjustable dead-band, two 6 A SSR. Accepts one pH and one ORP input through supplied transmitters. Ideal for cyanide destruction or chrome reduction . . . . .	2005.00
<input type="checkbox"/>	<b>BATTERY POWERED pH RECORDER</b>		
	BPR-212	Records 2-12 pH values on a 30 day strip chart.	
	BPR-014	Records 0-14 pH values on a 30 day strip chart. Single pH probe input. . . . .	\$995.00
		Order probe separately. It uses a 6V rechargeable battery allowing approximately two weeks of recorder operation	

### ACCESSORIES/OPTIONS

<input type="checkbox"/>	PHCN-45-CHART212--	One 30-day chart for 2-12 pH . . . . .	\$10.00
<input type="checkbox"/>	PHCN-45-CHART014--	One 30-day chart for 0-14 pH . . . . .	10.00
<input type="checkbox"/>	PHTM-014-----	Replacement 4-20 mA pH transmitter (0-14 range) . . . . .	189.00
<input type="checkbox"/>	PHTM-212-----	Replacement 4-20 mA pH transmitter (2-12 range) . . . . .	189.00
<input type="checkbox"/>	PHCN-55-BATT---	Replacement 6 V battery for BPR-212 . . . . .	35.00
<input type="checkbox"/>	PHCN-55-CHARGER--	Replacement 6 V charger for BPR-212 . . . . .	80.00

## IPHR SERIES

### pH, CONDUCTIVITY or ORP CONTROLLER / RECORDER

The IPHR series of pH, conductivity or ORP recorders provides a reliable method of monitoring, controlling and recording various industrial and chemical processes. Featuring an impressive list of Standard features which includes NEMA-4X enclosure, digital display, paper data logging, relay output and manual or automatic temperature compensation.

### MONITOR AND RECORDER

Single input monitor and inkless pressure sensitive recorder with temperature compensation.

<input type="checkbox"/>	IPHR-pH-----	pH input: . . . . .	\$995.00
<input type="checkbox"/>	IPHR-ORP-----	ORP input: . . . . .	995.00

### MONITOR / CONTROLLER AND RECORDER

Single input monitor/CONTROLLER and inkless pressure sensitive recorder with temperature compensation.

<input type="checkbox"/>	IIRC-PH-----	pH input: . . . . .	\$1450.00
<input type="checkbox"/>	IIRC-ORP-----	ORP input: . . . . .	1450.00

### MONITOR / CONTROLLER AND RECORDER

Dual input monitor/CONTROLLER and two channel inkless pressure sensitive recorder

<input type="checkbox"/>	IIRCD-(*)-(*)-----	. . . . .	\$1950.00
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\*specify pH or ORP for each input

### OPTION

-230	Add to model number for 230 Vac power . . . . .	NC
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## PHTX SERIES

### pH, ORP TRANSMITTERS AND PREAMPLIFIERS

The PHTX series Preamps are unity gain preamplifiers which convert the high impedance mV signal of a pH or ORP electrode to a low impedance signal which can travel 1,000 feet over ordinary wire and connectors. They may be used with pH meters and controllers (such as the INPCpH) which include high impedance input circuitry and also with Process Meters and and Controllers such as the INFCP and INFP. In many applications the PHTX-20 series Preamps will also extend the useful life of expensive pH electrodes, lowering the output impedance of an aging electrode allowing it to continue providing a measurable signal.

<input type="checkbox"/>	PHTX-11 -----Isolated 4-20 mA transmitter with integral display and NEMA 4X enclosure . . . . .	\$430.00
<input type="checkbox"/>	PHAMP-1 -----pH Preamplifier, single output, lithium battery powered (5-year life) encapsulated in an epoxy filled stainless steel enclosure. Input and output connections are BNC . . . . .	59.00
<input type="checkbox"/>	PHAMP-2 -----pH Preamplifier, 10 to 40 Vdc powered . . . . .	79.00
<input type="checkbox"/>	PHAMP-3 -----pH Preamplifier, 10 to 40 Vdc powered with automatic temperature compensation. (1000 ohm RTD is required) . . . . .	129.00

## MODEL HHpH1

### COMBINATION POCKET pH TESTER/THERMOMETER WITH REPLACEABLE ELECTRODE

The pocket-sized tester combines the pH electrode and readout into a single, compact unit. The electrode module contains a signal amplifier and a temperature sensor to let you take temperature compensated readings. The electrode is easily replaced, thus extending the life of the tester. The electrode module detaches for easy replacement or battery removal.

<input type="checkbox"/>	HHpH1 -----Pocket pH tester . . . . .	\$59.50
<input type="checkbox"/>	HHpH1-KIT -----Pocket pH tester with pH 4,7 and 10 buffer capsules . . . . .	69.50

### ACCESSORIES

<input type="checkbox"/>	HHpH1-R-----Replacement electrode . . . . .	\$27.50
<input type="checkbox"/>	PH-BATT-12-----1.35 V replacement batteries, 12 pack . . . . .	10.00
<input type="checkbox"/>	PH-BATT-1 -----1.35 V replacement battery (3 required) . . . . .	1.00
<input type="checkbox"/>	PHA-4-----Buffer solution, 475 ml, pH 4.01 . . . . .	10.00
<input type="checkbox"/>	PHA-7-----Buffer solution, 475 ml, pH 7.01 . . . . .	10.00
<input type="checkbox"/>	PHA-10-----Buffer solution, 475 ml, pH 10.01 . . . . .	10.00

## MODEL HHCD

### POCKET CONDUCTIVITY TESTER

Pocket size, digital conductivity meter offering a variety of measuring ranges with one model. Ideal for quick field checks of water-based solutions, each model combines the measuring sensor and meter in one pocket-size package. The model HHCD measures in the ranges 1 to 199µS/cm, 0.01 to 1.99mS, 0.1 to 19.9mS, 1 to 199ppm, 0.01 to 1.99ppt and 0.1 to 19.9ppt ranges, with ATC 0 to 70°C (32 to 158°F).

<input type="checkbox"/>	HHCD -----Pocket Conductivity tester . . . . .	\$119.00
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### ACCESSORIES

<input type="checkbox"/>	PH-BATT-12-----1.35 V replacement batteries, 12 pack . . . . .	\$10.00
<input type="checkbox"/>	PH-BATT-1 -----1.35 V replacement battery (3 required) . . . . .	1.00
<input type="checkbox"/>	CDS-45-----Conductivity standard solution, 45 µS/cm, 1 quart . . . . .	18.00
<input type="checkbox"/>	CDS-450 -----Conductivity standard solution, 450 µS/cm, 1 quart . . . . .	18.00
<input type="checkbox"/>	CDS-1500-----Conductivity standard solution, 1500 µS/cm, 1 quart . . . . .	18.00
<input type="checkbox"/>	CDS-4500-----Conductivity standard solution, 4500 µS/cm . . . . .	18.00

## DP SERIES

### HAND HELD ANALOG INSTRUMENTS FOR CONDUCTIVITY AND RESISTIVITY

The DP series meters are simple to operate, battery powered portable meters which indicate either conductivity or resistivity on a stable, easy to read analog display, designed and calibrated specifically for monitoring water quality. They feature integral sample cup sensors, water and chemically resistant ABS cases, and rubber booted switches. The instrument handle for protection make the instruments ideal for users requiring portability without sacrificing reliability. Each Pocket Pal® comes complete with 9-volt battery, calibration screwdriver protective carrying case, calibration standards and instructions for use.

#### CONDUCTIVITY

The DP-03 and DP-04 display conductivity in both Micromhos and Parts Per Million and feature automatic temperature compensation. The DP-04 is ideal for the performance of Reverse Osmosis and other drinking water filtration systems with a single range of 0-1200PPM. The DP-03 displays conductivity across three switchable ranges of 0-50, 0-500 and 0-5000 providing improved accuracy and readability.

<input type="checkbox"/>	DP-03	-----3-range conductivity, 0-50, 0-500, 0-5000 ppm, 0-75 0-750, 0-7500 µmhos . . . . .	\$275.00
<input type="checkbox"/>	DP-04	-----Conductivity, 0 to 1200 PPM, 0 to 1800 µmhos. . . . .	185.00

#### RESISTIVITY

The DP-04D is designed for water quality measurements in the Ultra Pure range and displays Resistivity across two switchable ranges of infinity to 20,000 ohm/in' and infinity to 400 ohm/in'.

<input type="checkbox"/>	DP-04D	-----Resistivity: infinity to 20,000ohms/in', 400ohms/in . . . . .	\$295.00
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#### ACCESSORIES

<input type="checkbox"/>	PHA-10	-----Buffer solution, pH 10.01 . . . . .	\$10.00
<input type="checkbox"/>	CDS-0	-----Cleaning solution for conductivity probe . . . . .	12.95
<input type="checkbox"/>	CDS-1	-----Salt analyzer calibration solution 1% . . . . .	12.95
<input type="checkbox"/>	CDS-10	-----Salt analyzer calibration solution 10% . . . . .	12.95
<input type="checkbox"/>	CDS-45	-----Conductivity solution 45µmhos/cm . . . . .	18.00
<input type="checkbox"/>	CDS-450	-----Conductivity solution 450µmhos/cm . . . . .	18.00
<input type="checkbox"/>	CDS-1500	-----Conductivity solution 1500µmhos/cm . . . . .	18.00
<input type="checkbox"/>	CDS-4500	-----Conductivity solution 4500µmhos/cm . . . . .	18.00

## POCKET PAL®

### HAND HELD POCKET PAL INSTRUMENTS FOR pH, CONDUCTIVITY, ORP, DISSOLVED OXYGEN, SALT CONCENTRATION, AND TEMPERATURE

Pocket Pal instruments are ideal for laboratory and field analysis applications. Unique packaging permits one-hand operation, freeing the other for sample collection and manipulation. Electrodes are designed for ease of field replacement and can be recalibrated in minutes with easy access two point calibration. ABS plastic housing and probes which fold-away into the instrument handle for protection make the instruments ideal for users requiring portability without sacrificing reliability. Each Pocket Pal comes complete with 9-volt battery, calibration screwdriver protective carrying case, calibration standards and instructions for use.

<input type="checkbox"/>	-----	<b>pH / CONDUCTIVITY</b> 0-14.00pH, resolution 0.01, accuracy ±0.02pH, 0-70°C. Conductivity resolution 10, accuracy ±2%fs, 0-50°C	
	DSPH-1BPPM	pH / conductivity range 0-20,000 ppm . . . . .	\$360.00
	DSPH-1BUS	pH / conductivity range 0-20,000 µS . . . . .	.360.00
<input type="checkbox"/>	-----	<b>pH / 3-RANGE CONDUCTIVITY</b> 0-14.00pH, resolution 0.01, accuracy ±0.02pH, 0-70°C. Conductivity resolutions 1, 10, 100 accuracy ±0.2%fs, 0-50°C	
	DSPH-3BPPM	pH/3-range conductivity 2,000, 20,000, 200,000 ppm . . . . .	\$410.00
	DSPH-3BUS	pH/3-range conductivity 2,000, 20,000, 200,000 µs. . . . .	.410.00
<input type="checkbox"/>	-----	<b>pH</b> 0-14.00pH, resolution 0.01, accuracy ±0.04pH, 0-100°C	
	PH-2	Ideal for general purpose pH measurements, with manual temperature compensation and replaceable probe . . . . .	\$199.00
<input type="checkbox"/>	-----	<b>4-RANGE CONDUCTIVITY</b> Conductivity resolutions .1, 1, 10, 100, Accuracy ±1%FS or ±1.5% FS for 0-200,000 ±0.1% 0-50°C ±0.3% 50-70°C	
	TDS-4	4-range conductivity 0-200, 2,000, 20,000 and 200,000µs. Uses 100 ohm RTD for automatic temperature compensation . . . . .	\$340.00
<input type="checkbox"/>	-----	<b>DISSOLVED OXYGEN</b> 0-19.99 ppm ±.1ppm, 0-40°C, Temperature 0-80°C ±.2°C	
	D0-6	Dissolved oxygen meter with integral temperature sensor and switch selectable display . . . . .	\$485.00

<input type="checkbox"/>	ORPH-7B 0-14.00	<b>pH / ORP</b> pH, resolution 0.01, accuracy ±0.02pH, 0-70°C ORP ±1000 mV, resolution 1mV, accuracy ±15mV Dual function for display of pH or Oxidation Reduction potential; automatic temperature compensation . . . . .	\$465.00
<input type="checkbox"/>	SM-8	<b>SALT ANALYZER</b> 0-1.999% NaCl ±1% of span (±0.03% NaCl), 0-50°C ±0.01% 0-19.99% NaCl ±1% of span (±.3% NaCl), 0-50°C ±0.01% Measures % concentration of NaCl to a max of 20% salt concentration. Selectable "Fixed" or "Variable" calibration modes permit user to read factory calibrated NaCl concentration or the concentration of salts with similar conductivity/ % concentration relationships. . . . .	\$395.00
<input type="checkbox"/>	TDS-R	<b>RESISTIVITY METER</b> The newest addition to the POCKET PAL family of meters, the CDH-95 measures resistivity across three ranges, from infinity to 200K, to 20K, and to 2K Ohms/Cubic, Inch which makes it an excellent choice for spot checking the resistivity of samples ranging from pure water to tap water. It is especially useful for quality control in electronics assembly. The CDH-95 features automatic temperature compensation, which the user can switch on or off (it is fixed at 25°C/77°F) as needed. The detachable epoxy body probe features stainless steel electrodes and incorporates a 1,000 Ohm platinum RTD. It's designed for one hand operation, or can be used as a table-top meter . . . . .	\$395.00
<b>ACCESSORIES for POCKET PAL instruments</b>			
<input type="checkbox"/>	PHE-8200B	Spare Stick pH Probe. . . . .	\$77.00
<input type="checkbox"/>	PHE-8236V	Spare pH Probe w/ 3 Ft Cable . . . . .	78.00
<input type="checkbox"/>	CDE-8200A	Replacement conductivity probe for DSPH-1 and DSPH-3 . . . . .	67.00
<input type="checkbox"/>	CDE-8236A	Same as CDE-8200A on 36" cable . . . . .	69.00
<input type="checkbox"/>	CDE-8002A	Replacement conductivity sensor for TDS-4 and SM-8 . . . . .	69.00
<input type="checkbox"/>	CDE-8036A	Same as CDE-8002A on 36" cable . . . . .	71.00
<input type="checkbox"/>	PHE8200D	Double junction replacement probe for DSPH or ORPH-7 . . . . .	75.00
<input type="checkbox"/>	PHE-8100	Replacement pH electrode for PH-2 (old p/n 101876) . . . . .	60.00
<input type="checkbox"/>	PHE-8136	Same as PHE-8100 on 36" cable . . . . .	61.00
<input type="checkbox"/>	101882	Flat body replacement pH electrode for PH-2 . . . . .	70.00
<input type="checkbox"/>	805240	Extension cord (2-meter) for DO-6 . . . . .	45.00
<input type="checkbox"/>	856240	Replacement probe for DO-6 . . . . .	260.00
<input type="checkbox"/>	PHDG-8200	Replacement membrane kit for DO-6 (old p/n 856250) . . . . .	40.00
<input type="checkbox"/>	ORE-8200	Replacement ORP probe for ORPH-7 (old p/n 856200) . . . . .	100.00
<input type="checkbox"/>	ORE-8236	Same as ORE-8200 on 36" cable . . . . .	101.00
<input type="checkbox"/>	856260	ORP standard kit . . . . .	60.00
<input type="checkbox"/>	CDE-8002	Replacement probe for SM-8 (old p/n 270377) . . . . .	67.00
<input type="checkbox"/>	200347	Conductivity probe cleaning kit (DSPH1-3,TDS-4,SM-8) . . . . .	10.95
<input type="checkbox"/>	PHEC-81	36" BNC m/f extension cable for pH and ORP electrodes . . . . .	15.00
<input type="checkbox"/>	PHEC-60B	36" Triaxial m/f extension cable for pH electrodes with ATC (models DSPH1, DSPH3, ORPH-7) . . . . .	38.00
<input type="checkbox"/>	CDEC-60	36" Four pin mini DIN m/f extension cable for detachable conductivity and DO sensors . . . . .	19.00
<input type="checkbox"/>	PHE-8200-BNC	Triaxial/BNC adapter. Allows use of a wide variety of pH electrodes with standard BNC connectors. ATC sensor in adapter compensates to ambient temperature . . . . .	49.00
<input type="checkbox"/>	PHA-4	Buffer solution, pH 4.01 . . . . .	10.00
<input type="checkbox"/>	PHA-7	Buffer solution, pH 7.01 . . . . .	10.00
<input type="checkbox"/>	PHA-10	Buffer solution, pH 10.01 . . . . .	10.00
<input type="checkbox"/>	CDS-45	Conductivity solution 45µmhos/cm . . . . .	18.00
<input type="checkbox"/>	CDS-450	Conductivity solution 450µmhos/cm . . . . .	18.00
<input type="checkbox"/>	CDS-1500	Conductivity solution 1500µmhos/cm . . . . .	18.00
<input type="checkbox"/>	CDS-4500	Conductivity solution 4500µmhos/cm . . . . .	18.00

## MODEL FMA-900 GENERAL PURPOSE AIR VELOCITY TRANSDUCERS

The FMA-900 series air velocity transducer utilizes both a velocity sensor and temperature sensor for accurate measurement. Both sensors are glass-coated detectors (RTDs) that are rugged and insensitive to industrial and outdoor locations. Standard features include  $\pm 2\%$  accuracy, linear 0-5 Vdc or 4-20 mA output, 200 msec response time. Probe operating temperature is -40 to 250°F and operating pressure is 0 to 150 PSIG. Electronics operating temperature is 0-50°C. Probe construction is aluminum oxide ceramic glass coating; body is 304 SS. Probe length is 13 inches and has a diameter of 0.250 inch.



### MODEL

#### 0-5 V Output

FMA-900-V/N	10-100 SFPM	.....	\$822.00
FMA-901-V/N	10-200 SFPM	.....	.822.00
FMA-902-V/N	10-500 SFPM	.....	.822.00
FMA-903-V/N	10-1,000 SFPM	.....	.822.00
FMA-904-V/N	10-2,000 SFPM	.....	.822.00
FMA-905-V/N	10-5,000 SFPM	.....	.822.00
FMA-906-V/N	10-10,000 SFPM	.....	.822.00

#### 4-20 mA Output

FMA-900-I/N	10-100 SFPM	.....	\$.882.00
FMA-901-I/N	10-200 SFPM	.....	.882.00
FMA-902-I/N	10-500 SFPM	.....	.882.00
FMA-903-I/N	10-1,000 SFPM	.....	.882.00
FMA-904-I/N	10-2,000 SFPM	.....	.882.00
FMA-905-I/N	10-5,000 SFPM	.....	.882.00
FMA-906-I/N	10-10,000 SFPM	.....	.882.00

## MODEL FP7000 PADDLEWHEEL FLOW SENSOR SYSTEMS



FP7001	-----	The FP7000 series paddlewheel flow sensors are ideal for accurate monitoring of industrial water flows, hard-to-handle corrosive aqueous solutions, and high purity fluids. The flow sensor uses a paddlewheel-like rotor whose motion is converted into a square-wave pulse output by an open-collector Hall effect sensor. Pulse amplitudes are from 5 to 18 Vdc depending on input power. Accuracy is $\pm 2\%$ full scale	.....	\$.200.00
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### INSTALLATION FITTINGS

#### PVC Tee Schedule 40

FP7007	¾" pipe, flowrange (gpm)	2.0 to 30	.....	\$.77.00
FP7010	1" pipe, flowrange (gpm)	3.0 to 50	.....	.77.00
FP7012	1¼" pipe, flowrange (gpm)	5.0 to 90	.....	.80.00
FP7015	1½" pipe, flowrange (gpm)	7.0 to 125	.....	.90.00
FP7020	2" pipe, flowrange (gpm)	11 to 205	.....	.100.00
FP7025	2½" pipe, flowrange (gpm)	15 to 285	.....	.105.00
FP7030	3" pipe, flowrange (gpm)	25 to 460	.....	.125.00

#### GALVANIZED IRON

FP7007-GI	¾" pipe, flowrange (gpm)	2.0 to 30	.....	\$.125.00
FP7010-GI	1" pipe, flowrange (gpm)	3.0 to 50	.....	.110.00
FP7012-GI	1¼" pipe, flowrange (gpm)	5.0 to 90	.....	.110.00
FP7015-GI	1½" pipe, flowrange (gpm)	7.0 to 125	.....	.100.00
FP7020-GI	2" pipe, flowrange (gpm)	11 to 205	.....	.105.00
FP7025-GI	2½" pipe, flowrange (gpm)	15 to 285	.....	.150.00
FP7030-GI	3" pipe, flowrange (gpm)	25 to 460	.....	.170.00

#### Ordering example: (complete system)

FP7001 sensor and FP7010 fitting. \$200 + 77 = \$277.00



## MODEL FP9000

### FIBER-OPTIC PADDLEWHEEL FLOW SENSOR, 1/2" to 4" pipe

<input type="checkbox"/>	FP9001	-----	The FP9000 light speed paddlewheel flow sensors are ideal for applications in which the solutions have low viscosity (are water-like) and low in suspended solids. A patented fiber-optic sensing technique makes these sensors especially well-suited for applications in hazardous environments, where the paddlewheel electronics can be mounted in a non-hazardous location and the near-infrared light signal can be sent down the optic cable to the paddlewheel within the hazardous location. This non-magnetic design tolerates some rust. The P9000 series flow sensors must be used with the companion installation fitting and interface Transmitter . . . . .	\$225.00
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### INSTALLATION FITTINGS

#### PVC Tee Schedule 80

FP9005	1/2" pipe, flowrange (gpm)	1.0 to 20	. . . . .	\$80.00
FP9007	3/4" pipe, flowrange (gpm)	1.5 to 30	. . . . .	.90.00
FP9010	1" pipe, flowrange (gpm)	2.7 to 55	. . . . .	.90.00
FP9012	1 1/4" pipe, flowrange (gpm)	4.5 to 90	. . . . .	100.00
FP9015	1 1/2" pipe, flowrange (gpm)	6.2 to 125	. . . . .	100.00

#### PVC Saddle Schedule 80

FP9020	2" pipe, flowrange (gpm)	10.5 to 200	. . . . .	\$100.00
FP9025	2 1/2" pipe, flowrange (gpm)	15 to 300	. . . . .	100.00
FP9030	3" pipe, flowrange (gpm)	23 to 300	. . . . .	120.00
FP9040	4" pipe, flowrange (gpm)	39 to 800	. . . . .	140.00

### INTERFACE SIGNAL CONDITIONER "TRANSMITTER"

<input type="checkbox"/>	FP9P-T	Fiber-optic to TTL pulse interface, requires 24Vdc . . . . .	\$155.00
<input type="checkbox"/>	FP9P-CL	Fiber-optic to NPN open-collector, requires 24Vdc . . . . .	195.00

### ACCESSORIES

<input type="checkbox"/>	PSU-24B	-----	115 Vac adapter, 24 Vdc output on screw terminals . . . . .	\$40.00
<input type="checkbox"/>	TX4-100	-----	4-wire shielded cable, 100 ft. . . . .	28.50

## MODEL HHM1/HHM1A

### TALKING MULTIMETER/THERMOMETER

Talking digital multimeter/type K thermometer with voice annunciation. Accessories included are fuses, 2 (two) beaded-wire type K thermocouple probes, TAS transition adapter, custom test probes, English voice chip, ear-phone, soft carrying case, 9 V battery, 110 Vac adapter and user's manual.

<input type="checkbox"/>	HHM1	-----	High performance DMM/thermometer . . . . .	\$349.00
<input type="checkbox"/>	HHM1A	-----	Very high performance DMM/thermometer . . . . .	379.00

### ADD-ON OPTIONS

<input type="checkbox"/>	HHM1-FR	-----	French plug-in speech chip . . . . .	\$75.00
<input type="checkbox"/>	HHM1-SP	-----	Spanish plug-in speech chip . . . . .	75.00
<input type="checkbox"/>	HHM1-GR	-----	German plug-in speech chip . . . . .	75.00
<input type="checkbox"/>	HHM1-JP	-----	Japanese plug-in speech chip . . . . .	85.00
<input type="checkbox"/>	HHM1-EG	-----	English plug-in speech chip . . . . .	65.00

### ACCESSORIES

<input type="checkbox"/>	HHM1-SDX	-----	Pistol grip thermocouple handle with speech actuator button and 6" thermocouple probe . . . . .	\$35.00
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## MODEL RH411

### DIGITAL THERMO-HYGROMETER

<input type="checkbox"/>	RH411	-----	Digital temperature humidity indicator comes complete with handheld temperature/humidity sensor with 5' cable, 9V battery, 110 Vac adapter and operator's manual . . . . .	\$349.00
<input type="checkbox"/>	RH411-220	-----	Digital temperature humidity indicator comes complete with handheld temperature/humidity sensor with 5' cable, 9V battery, 220 Vac adapter and operator's manual . . . . .	354.00

### ACCESSORIES

<input type="checkbox"/>	RH411-DP	-----	Direct connect probe without cable . . . . .	\$88.00
<input type="checkbox"/>	RH411-220V	-----	220 Vac adapter . . . . .	23.75
<input type="checkbox"/>	RH411-RP	-----	Replacement probe . . . . .	88.00

## HHM290

### NEXT GENERATION SUPERMETER™ WITH LASER SIGHTING

The HHM290 is a low cost digital multimeter & thermometer. It has a built-in infrared sensor and laser sighting for non-contact temperature measurement. The optical field of view is 10 to 1. This multimeter also measures and displays voltage, current, resistance, inductance, capacitance and frequency. It also has dual type K thermocouple inputs for temperature measurement. Special features include T1-T2, min, max and average readings, manual/auto range and a built-in timer.

<input type="checkbox"/>	HHM290-----Digital multimeter/infrared thermometer with laser sighting Dot/Circle Switch . . . . .	\$345.00
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### ACCESSORIES

<input type="checkbox"/>	HHM-TL -----Replacement test leads (1 set) . . . . .	\$5.00
<input type="checkbox"/>	KTSS-HH -----General purpose immersion probe (type k) . . . . .	.29.00
<input type="checkbox"/>	88001K -----General purpose surface probe (type k) . . . . .	.110.00
<input type="checkbox"/>	OS520-Adapter-110V ----110 Vac adapter . . . . .	.25.00
<input type="checkbox"/>	OS520-Adapter-220V ----220 Vac adapter . . . . .	.25.00

## CL1000 Series

### MINIATURE HOT POINT® DRY BLOCK CALIBRATOR, PORTABLE DESIGN

OMEGA's new CL1000 Series Mini hot point® dry block probe calibrator offers a fast, accurate, stable solution for calibrating temperature probes in both the laboratory and in the field by providing a lightweight, rugged miniature design. There are 5 different probe well styles available (shown on next page). The CL1000 Series has been engineered into a custom fabricated metal enclosure together with OMEGA's new "i series" high performance 1/32 DIN controller, and has been designed to meet a high level of quality, reliability and safety. Each 230 Vac unit carries the CE mark and has achieved performance results high above the required levels. The calibrator has a temperature calibration range of ambient + 11 to 260°C (+20 to 500°F) and can operate in an environment of 0 to 50°C (32 to 122°F) and a relative humidity of 0 to 95% non-condensing. Each CL1000 comes complete with power cord, soft carrying case and operator's manual.

<input type="checkbox"/>	CL1000A -----Mini hot point® dry block calibrator, well style A . . . . .	\$990.00
<input type="checkbox"/>	CL1000C -----Mini hot point® dry block calibrator, well style C . . . . .	\$990.00
<input type="checkbox"/>	CL1000D -----Mini hot point® dry block calibrator, well style D . . . . .	\$990.00
<input type="checkbox"/>	CL1000B-230V ----230 Vac Mini hot point® dry block probe calibrator, well style B . . . . .	\$990.00
<input type="checkbox"/>	CL1000D-230V ----230 Vac Mini hot point® dry block probe calibrator, well style D . . . . .	\$990.00

## TRCIII

### ICE POINT CALIBRATION REFERENCE CHAMBER AND TEMPERATURE REFERENCE PROBES, HIGH PRECISION BASE MODEL TRCIII

The TRC ice point™ Reference Chamber relies on the equilibrium of ice and distilled, deionized water at atmospheric pressure to maintain six reference wells at precisely 0°C. The wells extend into a sealed cylindrical chamber containing the distilled, deionized water. The outer walls of the chambers are cooled by thermoelectric cooling elements. The increase in volume produced by the creation of ice crystals within the cell is sensed by the expansion of a bellows, which operates a microswitch and controls the cooling elements. The alternate freezing and thawing of the ice accurately maintains a 0°C environment around the reference wells.

<input type="checkbox"/>	TRCIII-----Ice point™ reference 120 Vac operation . . . . .	\$1175.00
<input type="checkbox"/>	TRCIII-230-----Ice point™ reference 220 Vac operation . . . . .	.1175.00
<input type="checkbox"/>	TRP-K-----Type K temperature reference probe . . . . .	.65.00
<input type="checkbox"/>	TRP-T-----Type T temperature reference probe . . . . .	.65.00
<input type="checkbox"/>	TRP-E-----Type E temperature reference probe . . . . .	.65.00
<input type="checkbox"/>	TRP-J-----Type J temperature reference probe . . . . .	.65.00
<input type="checkbox"/>	TRP-S-----Type S temperature reference probe . . . . .	.130.00
<input type="checkbox"/>	TRP-R -----Type R temperature reference probe . . . . .	.130.00
<input type="checkbox"/>	TRP-B-----Type B temperature reference probe . . . . .	.130.00
<input type="checkbox"/>	TRP-C -----Type C temperature reference probe . . . . .	.130.00
<input type="checkbox"/>	TRP-G -----Type G temperature reference probe . . . . .	.130.00
<input type="checkbox"/>	TRP-D -----Type D temperature reference probe . . . . .	.130.00
<input type="checkbox"/>	TRP-PT-----Mercury temperature reference probe . . . . .	.62.00
<input type="checkbox"/>	TRP-PT-NIST ----Mercury temperature reference probe with NIST Traceable Certificate . . . . .	.124.00
<input type="checkbox"/>	CAL-3-----NIST traceable calibration . . . . .	.Consult Sales

## TRCIII

### PORTABLE ICE POINT CALIBRATION REFERENCE CHAMBER WITH BUILT IN TEMPERATURE READOUT.

The TRCIII-A ice point™ reference chamber relies on the equilibrium of ice and distilled, deionized water at atmospheric pressure to maintain six reference wells at precisely 0°C. Each well extends into a sealed cylindrical chamber containing the distilled deionized water. The outer walls of the chamber are cooled by thermoelectric cooling elements. The increase in volume produced by the creation of ice crystals within the cell is sensed by the expansion of a bellows, which operates a micro switch and controls the cooling elements. The alternate freezing and thawing of the ice accurately maintains a 0°C environment around the reference wells..

<input type="checkbox"/>	TRCIII-A -----Ice point™ reference 120 Vac operation . . . . .	\$1475.00
<input type="checkbox"/>	TRCIII-230 -----Ice point™ reference 230 Vac operation . . . . .	1475.00
<input type="checkbox"/>	TRP-PT -----Mercury temperature reference probe . . . . .	.62.00
<input type="checkbox"/>	TRP-PT-NIST ----Mercury temperature reference probe with NIST Traceable Certificate . . . . .	124.00

## OS101 Series

### MINIATURE LOW COST NON-CONTACT I/R TEMPERATURE SENSOR TRANSMITTER.

OMEGA's new CE marked low cost OS100 Series mini infrared transmitter system features a remotely mounted infrared temperature sensor and high performance microprocessor based signal conditioner. The OS100's miniature sensor head design is ideal for measuring temperature in confined, hard-to-reach places and harsh environments. The sensor head is connected to the main electronic via a 6 ft shielded cable standard on all models. This connection can be extended in the field with a minor adjustment. The signal conditioners main electronics are mounted in a rugged NEMA-4 rated die cast aluminum housing and feature adjustable emissivity, linear voltage, current or type K thermocouple output calibrated for the units 0 to 1000°F (-18 to 538°C) measurement range. A user adjustable high/low alarm output is standard on all models.

<input type="checkbox"/>	OS101-MA -----Transmitter with 4 to 20 mA output with Field of View of 6:1 . . . . .	\$245.00
<input type="checkbox"/>	OS101-K -----Transmitter with type K TC output. Field of View of 6:1 . . . . .	195.00
<input type="checkbox"/>	OS101-MV-C ----Transmitter with 1mV/ Deg C dc output. Field of View of 6:1 . . . . .	195.00
<input type="checkbox"/>	OS101-MV-F ----Transmitter with 1mV/ Deg F dc output. Field of View of 6:1 . . . . .	195.00
<input type="checkbox"/>	OS101-V1 -----Transmitter with 0 to 5 Vdc output. Field of View of 6:1 . . . . .	195.00
<input type="checkbox"/>	OS100-MB -----Mounting Bracket . . . . .	.20.00
<input type="checkbox"/>	OS100-DR -----DIN Rail Mounting Adapter . . . . .	.25.00
<input type="checkbox"/>	OS100-AP -----Air Purge Collar . . . . .	.30.00
<input type="checkbox"/>	OS100-WC -----Water Cooling Jacket . . . . .	175.00
<input type="checkbox"/>	OS100-LS -----Laser Sighting Accessory . . . . .	175.00
<input type="checkbox"/>	OS100-CA6FT ----Sensor Head Extension Cable 6' (2 m) . . . . .	.25.00
<input type="checkbox"/>	OS100-CA15FT ----Sensor Head Extension Cable 15' (4.6 m) . . . . .	.35.00
<input type="checkbox"/>	OS100-CA25FT ----Sensor Head Extension Cable 25' (7.6 m) . . . . .	.45.00
<input type="checkbox"/>	TX8-100 -----Power / Output Cable 100' (30 m) . . . . .	.45.50
<input type="checkbox"/>	PSU-93 -----24 Vdc Power Supply . . . . .	.40.00
<input type="checkbox"/>	CAL-3-IR -----NIST Traceable Calibration . . . . .	125.00

## OS1592

### FAST RESPONSE INFRARED FIBER OPTIC THERMOMETER/TRANSMITTER WITH LOCAL DISPLAY AND ANALOG OUTPUT

OMEGA's new CE marked low cost OS1590 Series mini infrared fiber optic transmitter system features a remotely mounted infrared temperature sensor and high performance microprocessor based signal conditioner. The OS1592 miniature head design is ideal for measuring temperature in confined, hard-to-reach places and harsh environments. The sensor head is connected to the main electronic via a 6 ft fiber optic cable standard on all models. The signal conditioners main electronics are mounted in a rugged NEMA-4 rated die cast aluminum housing and feature a backlit LCD, adjustable emissivity, linear voltage, current or type K thermocouple output. A user adjustable high/low alarm output is standard on all models.

<input type="checkbox"/>	OS1592 -----Fast Response IR Fiber Optic Thermometer/Transmitter with Local Display and Analog Output . .	\$1700.00
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## CL900A and CL950A Series

### HOT POINT® DRY BLOCK PROBE CALIBRATOR WITH RS232 COMMUNICATIONS STANDARD

OMEGA's hot point® calibrator is part of a new family of calibrators which allows calibration of thermocouple and RTD probes quickly and easily with an accuracy to 0.9°C (1.5°F). An integral RTD sensor assures high measurement accuracy and repeatability. A built-in microprocessor-based PID digital controller assures exceptional stability. Setpoint and actual temperature are displayed simultaneously. Temperature can be set in one degree increments from 22°C (40°F) above ambient to 482°C (900°F).

The CL900A calibrator accepts a variety of optional inserts which are available in 4" and 6" depths, and probe diameters from 1/8" to 3/8". An undrilled insert is also available. The CL900A comes complete with a 1/4" diameter, 6" deep insert well, and insert block tongs. Additional inserts can be ordered separately as required for other diameter probes. 6" depth inserts are used for probes 7" and longer. 4" depth inserts are used for probes 5" and longer.

<input type="checkbox"/>	CL900A-220-----hot point® calibrator, 220 Vac . . . . .	\$3295.00
<input type="checkbox"/>	CL900A-110-----hot point® calibrator, 220 Vac . . . . .	.3295.00
<input type="checkbox"/>	CL950A-110-----Multi-well hot point® 110 V . . . . .	.3595.00
<input type="checkbox"/>	CL950A-220-----Multi-well hot point® 220 V . . . . .	.3595.00
<input type="checkbox"/>	CL950A-M-110 ----Multi-well hot point® 110 V . . . . .	.3595.00
<input type="checkbox"/>	CL950A-M-220 ----Multi-well hot point® 220 V . . . . .	.3595.00
<input type="checkbox"/>	CL901-----Insert, 1/8" dia. x 4" deep test well . . . . .	.89.00
<input type="checkbox"/>	CL901-M -----Metric insert, 2 mm dia. x 106.6 mm deep test well . . . . .	.89.00
<input type="checkbox"/>	CL905-----Insert, 1/4" dia. x 4" deep test well . . . . .	.89.00
<input type="checkbox"/>	CL908-M -----Metric insert, 6 mm dia. x 106.6 mm deep test well . . . . .	.89.00
<input type="checkbox"/>	CL9011 -----Insert, undrilled . . . . .	.79.00

## MODEL HX92A

### RELATIVE HUMIDITY TRANSMITTER WITH VOLTAGE OR CURRENT OUTPUT

The model HX92 is an economical humidity transmitter, providing on-site continuous monitoring of relative humidity. It is a 2-wire transmitter with either voltage or current output. The transmitter output is linearized, and RH readings are temperature compensated. A thin-film polymer capacitor senses relative humidity. The sensor is protected by a stainless mesh-type filter that is easily removable for cleaning. The case and weathertight protection, and screws are provided for mounting the unit via internal hole. An unusually low minimum voltage of 6 V allows the use of large impedances for longer wire runs. The HX93 is a similar unit that provides transmitter outputs for both humidity and temperature.

<input type="checkbox"/>	HX92AC -----Relative humidity transmitter with 4 to 20 mA outputs. Latest version. . . . .	\$.190.00
<input type="checkbox"/>	HX92AV -----Relative humidity transmitter with 0-1 Vdc outputs. Latest version. . . . .	\$.190.00
<input type="checkbox"/>	HX92-CAL -----Calibration Kit, 11 and 75% relative humidity standards. . . . .	\$.65.00
<input type="checkbox"/>	PSU-93 -----Unregulated power supply, 16 to 23Vdc, 300mA max. . . . .	\$.40.00
<input type="checkbox"/>	TX4-100 -----4 conductor shielded transmitter cable (100 ft.). . . . .	\$.28.50
<input type="checkbox"/>	CAL-3-HU-----NIST Traceable Calibration. . . . .	\$.125.00

## MODEL HX93A

### RELATIVE HUMIDITY/TEMPERATURE TRANSMITTER WITH DUAL VOLTAGE OR CURRENT OUTPUT

The HX93 transmitter provides remote or on-site monitoring of relative humidity and temperature. The HX93 outputs a linearized current or voltage signal proportional to the measured humidity or temperature. RH outputs are temperature compensated. Current output models enable placing of the transmitter at a remote location virtually any distance away from the readout or datalogging device. HX93 utilizes a thin-film polymer capacitor to sense relative humidity, and a Platinum 100 OHM RTD to accurately sense temperature. A stainless steel mesh type filter protects the sensors, which is easily removable for cleaning. Mounting screws are easily accessible inside the rugged, ABS enclosure, which houses and protects the electronics to NEMA 13 specifications. An unregulated power supply providing a voltage of 6-30V powers the HX93

<input type="checkbox"/>	HX93AC -----Relative humidity transmitter with 4 to 20 mA outputs. Latest version. . . . .	\$.225.00
<input type="checkbox"/>	HX93AV -----Relative humidity transmitter with 0-1 Vdc outputs. Latest version. . . . .	\$.225.00
<input type="checkbox"/>	HX92-CAL -----Calibration Kit, 11 and 75% relative humidity standards. . . . .	\$.65.00
<input type="checkbox"/>	PSU-93 -----Unregulated power supply, 16 to 23Vdc, 300mA max. . . . .	\$.40.00
<input type="checkbox"/>	TX4-100 -----4 conductor shielded transmitter cable (100 ft.). . . . .	\$.28.50

## HIGH TEMPERATURE RELATIVE HUMIDITY/TEMPERATURE TRANSMITTER, WITH REMOTE PROBE

The HX15 series two wire remote transmitters measure relative humidity and temperature over a large temperature range (-40 to 180°C). The HX15-W 64 mm (2.5") stainless steel probe is used for wall mounting. The HX15-D 216 mm (8.5") stainless steel duct probe has a removable flange. The probes are connected to housings with 1 m (40") Teflon® cables. Custom length cables available on special order. Probes are not field replaceable.

<input type="checkbox"/>	HX15-W -----Wall Mounted RH/Temp transmitter (2.5" probe) . . . . .	\$495.00
<input type="checkbox"/>	HX15-D -----Wall Mounted RH/Temp transmitter (8.5" probe) . . . . .	.545.00
<input type="checkbox"/>	PSU-93 -----Power Supply, unregulated 16-23Vdc, 300mA max . . . . .	.40.00

## EWS Series ENVIRONMENTAL WALL MOUNT SENSORS

OMEGA's new low cost environmental wall mount sensors offer the perfect solution for keeping your office, computer room or laboratory's décor looking great at an economical price. These miniature units come in 6 models that will interface directly with most process meters, controllers, recorders, data loggers and data acquisition systems. Thermocouple, RTD and Thermistor models come with 914 mm (36") leads standard. Temperature, Temperature/ Humidity and Pressure units come with user selectable industry standard 4-20 mA or 1-5 Vdc output.

<input type="checkbox"/>	EWS-TC-J -----Wall Mount Thermocouple sensor, type J . . . . .	\$36.00
<input type="checkbox"/>	EWS-TC-K -----Wall Mount Thermocouple sensor, type K . . . . .	\$36.00
	EWS-TC-T -----Wall Mount Thermocouple sensor, type T . . . . .	\$36.00
	EWS-TC-E -----Wall Mount Thermocouple sensor, type E . . . . .	\$36.00
	EWS-RTD -----Wall Mount RTD sensor (100 Ohm Pt., .00385) . . . . .	\$46.00
	EWS-TH -----Wall Mount 400 Series Thermistor Sensor . . . . .	\$46.00
	EWS-TX -----Wall Mount Temperature transmitter . . . . .	\$69.00
	EWS-Bp-A -----Wall Mount Barometric Pressure Transmitter . . . . .	.\$145.00
	EWS-RH -----Wall Mount Temperature/Humidity Transmitter . . . . .	.\$145.00
	EWS-MB -----Conduit Box Mounting Bracket/Wall Plate . . . . .	.\$12.00
	PSU-93 -----24V DC Power Supply . . . . .	.\$40.00

## FLSC90-A FIBER-OPTIC INPUT FLOW SIGNAL CONDITIONERS FOR USE WITH LIGHT SPEED™ PADDLEWHEEL FLOW SENSOR

OMEGA's Model FLSC90-A fiber-optic signal conditioner has been designed to interface directly with FP-9000 and FP-9000A series LIGHT SPEED™ paddlewheel flow sensors . The FLSC90-A provides a high intensity light source to the patented paddlewheel sensor through a semi-flexible duplex fiber-optic cable. Returning light pulses are measured and converted by the signal conditioner's electronics to a scalable analog output that is proportional to the flowrate. The ability of the paddle wheel flow sensor to operate in harsh and heavy electrical noise environments via the fiber optic cable link makes this system ideal for such applications. The industry standard 4-20 mA or 1-5 Vdc analog output can connect directly to many of OMEGA's process meters, controllers, dataloggers or data acquisition systems..

<input type="checkbox"/>	FLSC90-A -----Fiber Optic Signal Conditioner . . . . .	.\$390.00
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## OPC SERVER SOFTWARE

**Makes it easy to use NEWPORT hardware with popular software from:  
OMEGA • Wonderware • iconics • Intellution • Rockwell Automation • National Instruments ... and more!  
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The NEWPORT OPC Server software makes it easy to integrate NEWPORT hardware with software programs that are OPC compliant. The NEWPORT OPC Server is compatible with almost all NEWPORT meters, controllers, and signal conditioners featuring Ethernet or Serial Communications.

The NEWPORT OPC Server is available on CD-ROM or can be downloaded at no charge from the NEWPORT Web site. Without the License Activation Code, the free program will time-out after two (2) hours. These two-hour sessions can be repeated as often as necessary to evaluate the software at no charge.

To activate this license, you must first download the program or install from CD-ROM, and provide NEWPORT with the unique Installation Specific Code that will be presented within the installation process. If you choose to purchase a license On-Line, include this Installation Specific Code number in the "special instructions" for your order. As soon as possible during normal business hours, or the next business day, NEWPORT will provide you with the specific License Activation Code.

### What is an OPC Server?

OPC Servers are hardware drivers that are written to a common standard, OPC or "OLE for Process Control". OPC compliant programs (OPC Clients) for HMI, SCADA, DAS, etc. are available from NEWPORT, OMEGA, Wonderware, iconics, Intellution, Rockwell Automation, and National Instruments, among others.

The OPC Foundation offers this explanation: "OPC (originally OLE for Process Control) is an industry standard created with the collaboration of a number a leading worldwide automation and hardware software suppliers working in cooperation with Microsoft.

The standard defines method for exchanging realtime automation data among PC-based clients using Microsoft operating systems. The organization that manages this standard is the OPC Foundation.

The OPC Specification is a non-proprietary technical specification that defines a set of standard interfaces based upon Microsoft's OLE/COM technology. The application of the OPC standard interface makes possible interoperability between automation/control applications, field systems/devices and business/office applications.

"Traditionally, each software or application developer was required to write a custom interface, or server/driver, to exchange data with hardware field devices. OPC eliminates this requirement by defining a common, high performance interface that permits this work to be done once, and then easily reused by HMI, SCADA, Control and custom applications.

An unlimited runtime version of the OPC Server Software requires purchase of a license and entry of a unique License Activation Code. Without this code, the free OPC Server program will time-out after two (2) hours.

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