

Laurel Electronics



Customer Price List with Laureate Transmitters

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LAUREATE METER SERIES

High accuracy, high read rate, programmable digital indicators / controllers / computer interfaces for a wide variety of analog and digital inputs. Modular design, field installable options.

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LAUREATE TRANSMITTER SERIES

High accuracy, high update rate, digitally programmable transmitters. Available in 4-20 mA / 0-10V or Modbus versions, with relays, with same signal conditioners and programmable functions as Laureate meters, counters and timers.

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MAGNA SERIES LARGE DIGIT DISPLAYS

Magna series of large digit displays, digit heights from 2" to 8". Serial, process, strain gauge inputs. Also available as a clock, timer, totalizer, or frequency/rate meter.

Magna 2"	Large digit 2-inch display, NEMA 4X	10
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OTHER DIGITAL PANEL METERS

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ACCESSORIES

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HOW TO ORDER

When building a model number, make one entry per boxed heading. For example, Laureate model **L20010DCV1** is a 200 mV DC voltmeter with plug-in screw terminals, high voltage AC/DC power supply, and analog output.

LAUREATE SERIES DIGITAL PANEL METERS

L.....LAUREATE series meter, plug-in screw terminal connectors.....\$220

Display Color

1.....DPM with green LED.....NC
2.....DPM with red LED.....NC
3.....Extended DPM, green LED.....\$40
4.....Extended DPM red LED.....\$40
Extended does not apply to temperature.

Power

0.....85-264 Vac.....NC
1.....Low voltage 12-30 Vac or 10-48 Vdc.....\$30

Setpoint Output

0.....None.....NC
1.....Two 8A, Form C relays.....\$80
2.....Two solid state relays.....\$55
3.....Four 8A Form A contact relays.....\$100
4.....Four 130 mA solid state relays.....\$75

Analog Output

0.....None.....NC
1.....4-20 mA, 0-10 V, -10 to +10V.....\$90

Digital Interface

0.....None.....NC
1.....RS232.....\$60
2.....RS485.....\$80
4.....Modbus RS485 (ASCII, RTU).....\$90
5.....USB.....\$60
6.....USB to RS485 converter.....\$100
7.....Ethernet.....\$120
8.....Ethernet-to-RS485 converter.....\$150

Input Type

DC Volts

DCV1.....200.00 mV.....NC
DCV2.....2.0000 V.....NC
DCV3.....20.000 V.....NC
DCV4.....200.00 V.....NC
DCV5.....600.0 V (not UL certified).....NC
DCV6.....300.0 V.....NC

DC Amperes

DCA1.....2.0000 mA.....NC
DCA2.....20.000 mA.....NC
DCA3.....200.00 mA.....NC
DCA4.....5.000 A.....NC

RMS Volts

RMV1.....200.00 mV.....\$35
RMV2.....2.0000 V.....\$35
RMV3.....20.000 V.....\$35
RMV4.....200.00 V.....\$35
RMV5.....600.0 V (not UL certified).....\$35
RMV6.....250.0 V.....\$35

RMS Amperes

RMA1.....2.0000 mA.....\$35
RMA2.....20.000 mA.....\$35
RMA3.....200.00 mA.....\$35
RMA4.....5.000 A.....\$35

Process Signals (4-20 mA, 0-5V, etc.)

P.....4-20 mA = 0-100.00 display.....NC
P1.....Custom scaling.....\$10

Specify minimum signal & displayed reading, maximum signal & displayed reading. 5, 10 or 24V DC excitation.

Strain Gauges, Potentiometers (4-wire ratio)

SG.....0-200 mV = 0-100.00 display.....NC
SG1.....Custom scaling.....\$10

Specify minimum signal & displayed reading, maximum signal & displayed reading. Full scale inputs from 200 mV to 20V. 10V DC excitation.

Load Cells (6-wire ratio)

WM1.....-99,999 to +99,999.....\$55

Specify minimum signal & displayed reading, maximum signal & displayed reading. Full scale inputs from 20 mV to 500 mV. 10V DC excitation to power up to four load cells in parallel.

Thermocouples

JC.....-210 to 760°C.....NC
JF.....-347 to 1400°F.....NC
KC.....-244 to 1372°C.....NC
KF.....-408 to 2501°F.....NC
NC.....-245 to 1300°C.....NC
NF.....-410 to 2370°F.....NC
TC.....-257 to 400°C.....NC
TF.....-430 to 752°F.....NC
EC.....-270 to 1000°C.....NC
EF.....-450 to 1830°F.....NC
RC.....-45 to 1768°C.....NC
RF.....-49 to 3213°F.....NC
SC.....-46 to 1768°C.....NC
SF.....-51 to 3214°F.....NC

RTD Input (with alpha tempco)

P385C.....Pt 100 Ω platinum, -202 to 850°C.....NC
P385F.....Pt 100 Ω platinum, -331 to 1562°F.....NC
P392C.....Pt 100 Ω platinum, -202 to 850°C.....NC
P392F.....Pt 100 Ω platinum, -331 to 1562°F.....NC
N672C.....Ni 120 Ω nickel, -100°C to +260°C.....NC
N672F.....Ni 120 Ω nickel, -148°F to +500°F.....NC
C427C.....Cu 10 Ω copper, -100°C to +260°C.....NC
C427F.....Cu 10 Ω copper, -148°F to +500°F.....NC

Ohms Input

R1.....0-20 ohms.....NC
R2.....0-200 ohms.....NC
R3.....0-2 kohms.....NC
R4.....0-20 kohms.....NC
R5.....0-200 kohms.....NC
R6.....0-2 Mohms (special, fixed).....\$25

Options & Accessories. Please see page 12.

LAUREATE SERIES COUNTER / TIMERS

L LAUREATE series multifunction counter / timer / rate meter with dual-channel pulse, process, or quadrature input \$230

Display Color

5 Basic counter with green LED NC
 6 Basic meter with red LED NC
 7 Extended meter with green LED \$40
 8 Extended meter with red LED \$40

Power

0 85-264 Vac NC
 1 Low voltage 12-30 Vac or 10-48 Vdc \$30

Setpoint Output

0 None NC
 1 Two 8A, Form C relays \$80
 2 Two solid state relays \$55
 3 Four 8A Form A contact relays \$100
 4 Four 130 mA solid state relays \$75

Analog Output

0 None NC
 1 Single 4-20 mA, 0-10 V, -10 to +10V \$90
 2 Dual output 4-20 mA, 0-10 V \$135

Digital Interface

0 None NC
 1 RS232 \$60
 2 RS485 \$80
 4 Modbus RS485 (ASCII, RTU) \$90
 5 USB \$60
 6 USB to RS485 converter \$100
 7 Ethernet \$120
 8 Ethernet-to-RS485 converter \$150

Input Type

Dual Channel Pulse or AC Inputs

FR scalable to 999,999 NC

Basic counter

Frequency (2 channels simultaneously), rate (2 channels simultaneously), total (up or down, 2 channels simultaneously), period (2 channels simultaneously), stopwatch, time interval, square root of rate.

Extended counter

Above plus rate and total simultaneously, linearized inputs using up to 180 points, arithmetic functions (A*B, A/B, A+B, A-B, A/B-1), phase angle, duty cycle, up/down counting, batch control.

Process Rate & Total

VF1 4-20mA NC
 VF2 0-1mA NC
 VF3 0-10V NC
 VF4 Custom Scaling Consult factory

Standard main board

Rate, rate & total simultaneously (analog totalizer), square root of rate (for differential pressure or target type flow meters).

Extended main board

Above plus linearized inputs using up to 180 points, batch control with rate, total and # of batches or grand total of all batches, time measurements based on rate.

Quadrature

QD scalable to 999,999 \$30

Basic counter

Position or length from encoders. Accepts differential or single-ended inputs: 1x, 2x or 4x, plus zero index.

Extended counter

Above plus bidirectional rate (rate and position or length are not simultaneous).

Options & Accessories. Please see page 12.

LAUREATE SERIAL INPUT METER

L Laureate meter \$170
 Requires Digital Interface.

Display Color

5 Remote display with green LED NC
 6 Remote display with red LED NC

Power

0 85-264 Vac NC
 1 Low voltage 12-30 Vac or 10-48 Vdc \$30

Setpoint Output

0 None NC
 1 Two 8A Form C relays \$80
 2 Two solid state relays \$55
 3 Four 8A Form A contact relays \$100
 4 Four 130 mA solid state relays \$75

Analog Output

0 None NC
 1 Single 4-20 mA, 0-10 V, -10 to +10V \$90
 2 Dual output 4-20 mA, 0-10 V \$135

Digital Interface

1 RS232 \$60
 2 RS485 \$80
 4 Modbus RS485 (ASCII, RTU) \$90
 5 USB \$60
 6 USB to RS485 converter \$100
 7 Ethernet \$120
 8 Ethernet-to-RS485 converter \$150

Options & Accessories. Please see page 12.

LAUREATE SCALE / WEIGHING METER

LW Laureate scale meter.....\$250

Display Color

1 Meter with green LED.....NC
 2 Meter with red LED.....NC
 3 Extended meter, green LED\$40
 4 Extended meter, red LED\$40

Power

0 85-264 Vac.....NC
 1 Low voltage 12-30 Vac or 10-48 Vdc\$30

Setpoint Output

0 None.....NC
 1 Two 8A, Form C relays.....\$80
 2 Two solid state relays.....\$55

Analog Output

0 None.....NC
 1 4-20 mA, 0-10 V\$90

Digital Interface

0 None.....NC
 1 RS232\$60
 2 RS485\$80
 5 USB\$60
 6 USB to RS485 converter\$100

Input Type**DC Volts**

DCV1 200.00 mVNC
 DCV2 2.0000 VNC
 DCV3 20.0000 VNC
 DCV4 200.00 VNC
 DCV5 600.0 V *NC
 DCV6 300.0 VNC

DC Amperes

DCA1 2.0000 mANC
 DCA2 20.0000 mANC
 DCA3 200.00 mANC
 DCA4 5.0000 ANC

Process Signals (4-20mA, 0-5V, etc.)

P 4-20 mA = 0-100.00 displayNC
 P1 Custom scaling.....\$10

Specify minimum signal & displayed reading, maximum signal & displayed reading. 5, 10 or 24V DC excitation.

Strain Gauges, Potentiometers (4-wire ratio)

SG 0-200 mV = 0-100.00 displayNC
 SG1 Custom scaling.....\$10
 Specify min input signal & min output, max input signal & max output. Full scale input 200 mV to 20V. Isolated 5V or 10V DC excitation available.

Load Cells (6-wire ratio)

WM1 -99,999 to +99,999\$55
 Specify min input signal & min output, max input signal & max output. Full scale inputs from 20 mV to 500 mV. Isolated 10V DC excitation up to power up to four 350-ohm load cells in parallel.

Options & Accessories. Please see page 12.

**LAUREATE LTA 4-20 mA or 0-10V TRANSMITTERS
"DPM" SERIES, ANALOG INPUT**

Includes detachable screw clamp plug connectors, RS232 or RS485 port for programming, and isolated 5, 10 or 24V DC excitation. Jumpered for 10V excitation and RS232.

LTA Laureate transmitter with 4-20 mA or 0-10V isolated analog output (selectable at connector).....\$235

Main Board

2 Standard analog inputNC
4 Extended analog input.....\$40

Extended allows custom curve linearization & rate from successive readings. Not applicable to temperature.

Power

0 85-264 VacNC
1 Low voltage 12-30 Vac or 10-48 Vdc\$30

Setpoint Output

0 None.....NC
2 Two solid state relays.....NC

Input Type

DC Volts

DCV1 200.00 mVNC
DCV2 2.0000 VNC
DCV3 20.0000 VNC
DCV4 200.00 VNC
DCV5 600.0 VNC

DC Amperes

DCA1 2.0000 mANC
DCA2 20.0000 mANC
DCA3 200.00 mANC
DCA4 5.0000 ANC

RMS Volts*

RMV1 200.00 mV\$35
RMV2 2.0000 V\$35
RMV3 20.0000 V\$35
RMV4 200.00 V\$35
RMV5 600.0 V\$35

RMS Amperes*

RMA1 2.0000 mA\$35
RMA2 20.0000 mA\$35
RMA3 200.00 mA\$35
RMA4 5.0000 A\$35

Process Signals (4-20 mA, 0-5V, etc.)

P 4-20 mA in = 4-20 mA or 0-10V out.....NC
P1 Custom scaling.....\$10

Specify min input signal & min output, max signal & max output.

Strain Gauges, Potentiometers (4-wire ratio)

SG 0-200 mV in = 4-20 mA or 0-10V out.....NC
SG1 Custom scaling.....\$10

Specify min input signal & min output, max input signal & max output. Full scale inputs from 200 mV to 20V.

Load Cells (6-wire ratio)

WM1 Custom scaling.....\$55

Specify minimum signal & output, maximum signal & output. Full scale input from 20 mV to 500 mV.

Thermocouples*

JC -210 to 760°CNC
JF -347 to 1400°FNC
KC -244 to 1372°CNC
KF -408 to 2501°FNC
NC -245 to 1300°CNC
NF -410 to 2370°FNC
TC -257 to 400°CNC
TF -430 to 752°FNC
EC -270 to 1000°CNC
EF -450 to 1830°FNC
RC -45 to 1768°CNC
RF -49 to 3213°FNC
SC -46 to 1768°CNC
SF -51 to 3214°FNC

RTD Input (with alpha tempco)

P385C Pt 100 Ω platinum, -202 to 850°C.....NC
P385F Pt 100 Ω platinum, -331 to 1562°FNC
P392C Pt 100 Ω platinum, -202 to 850°C.....NC
P392F Pt 100 Ω platinum, -331 to 1562°FNC
N672C Ni 120 Ω nickel, -100°C to +260°CNC
N672F Ni 120 Ω nickel, -148°F to +500°FNC
C427C Cu 10 Ω copper, -100°C to +260°CNC
C427F Cu 10 Ω copper, -148°F to +500°FNC

Ohms Input

R1 0-20 ohmsNC
R2 0-200 ohmsNC
R3 0-2 kohmsNC
R4 0-20 kohmsNC
R5 0-200 kohmsNC
R6 0-2 Mohms (special, fixed)\$25

Accessories

CBL04 RS-232 serial cable from transmitter to DB9 connector of computer or USB adapter.....\$19
CBL02 USB to DB9 adapter cable\$39

**LAUREATE LTA 4-20 mA or 0-10V TRANSMITTERS
"CTR" SERIES, PULSE INPUT**

Includes detachable screw clamp plug connectors, RS232 or RS485 port for programming, and isolated 5, 10 or 24V DC excitation output. Jumpered for 10V excitation and RS232.

LTALaureate transmitter with 4-20 mA or 0-10V isolated analog output (selectable)..... \$235

Main Board

6Standard pulse inputNC
8Extended (see notes below) \$40

Power

0 85-264 VacNC
1 Low voltage 12-30 Vac or 10-48 Vdc \$30

Setpoint Output

0 NoneNC
2 Two solid state relaysNC

Input Type

Dual Channel Pulse or AC Inputs

FR Output scalable to 4-20 mA or 0-10VNC

Standard main board

Frequency (2 channels simultaneously), rate (2 channels simultaneously), total (up or down, 2 channels simultaneously), period (2 channels simultaneously), stopwatch, time interval, square root of rate.

Extended main board

Above plus rate and total simultaneously, linearized inputs using up to 180 points, ratio, draw, arithmetic functions (A*B, A/B, A+B, A-B), phase angle, duty cycle, up/down counting, batch control.

Process Input with Totalizing

VF1 4-20 mANC
VF2 0-1 mANC
VF3 0-10 VNC
VF4 Custom Scaling Consult factory

Standard main board

Rate, rate & total simultaneously (analog totalizer), square root of rate (for differential pressure or target type flow meters).

Extended main board

Above plus linearized inputs using up to 180 points, batch control with rate, total and # of batches or grand total of all batches, time measurements based on rate.

Quadrature

QD Output scalable to 4-20 mA or 0-10V \$30

Standard main board

Position or length from encoders. Accepts differential or single-ended inputs: 1x, 2x or 4x, plus zero index.

Extended main board

Above plus bidirectional rate (rate and position or length are not simultaneous).

Accessories

CBL04 RS-232 serial cable from transmitter to DB9 connector of computer or USB adapter \$19
CBL02 USB to DB9 adapter cable \$39

**LAUREATE LTS6 4-20 mA or 0-10V TRANSMITTER,
SERIAL DATA INPUT**

LTS6 Laureate serial data input transmitter, Modbus or Laurel ASCII serial input, and 4-20 mA, 0-20 mA or 0-10V analog output \$175

Power

0 85-264 VacNC
1 Low voltage 12-30 Vac or 10-48 Vdc \$30

Setpoint Output

0 NoneNC
2 Isolated dual solid state relaysNC

Accessories

CBL04 RS-232 serial cable from transmitter to DB9 connector of computer or USB adapter \$19
CBL02 USB to DB9 adapter cable \$39

**LAUREATE SERIAL OUTPUT TRANSMITTERS,
"DPM" SERIES, ANALOG INPUT**

Includes detachable screw clamp plug connectors, RS232 or RS485 port, and isolated 5, 10 or 24V DC excitation output. Jumpered for 10V excitation and RS485.

LTM Laureate transmitter, Modbus or Laurel protocol (selectable)\$235

Main Board

2 Standard NC
4 Extended (not applicable to temperature)...\$40

Power

0 95-240 Vac \pm 10% NC
1 Low voltage 12-30 Vac or 10-48 Vdc\$30

Setpoint Output

0 None NC
2 Two solid state relays NC

Scalable Analog Output

0 None NC
1 4-20 mA, 0-10 V NC

Input Type

DC Volts

DCV1 200.00 mV NC
DCV2 2.0000 V NC
DCV3 20.000 V NC
DCV4 200.00 V NC
DCV5 600.0 V NC

DC Amperes

DCA1 2.0000 mA NC
DCA2 20.000 mA NC
DCA3 200.00 mA NC
DCA4 5.000 A NC

RMS Volts*

RMV1 200.00 mV\$35
RMV2 2.0000 V\$35
RMV3 20.000 V\$35
RMV4 200.00 V\$35
RMV5 600.0 V\$35

RMS Amperes*

RMA1 2.0000 mA\$35
RMA2 20.000 mA\$35
RMA3 200.00 mA\$35
RMA4 5.000 A\$35

Process Signals (4-20 mA, 0-5V, etc.)

P 4-20 mA in = 0-100.00 out NC
P1 Custom scaling\$10
Specify min signal & min output, max input signal & max output.

Strain Gauges, Potentiometers (4-wire ratio)

SG 0-200 mV = 4-20 mA or 0-10000 out NC
SG1 Custom scaling\$10
Specify min input signal & min output, max input signal & max output. Full scale inputs from 200 mV to 20V.

Load Cells (6-wire ratio)

WM1 Custom scaling\$55
Specify minimum signal & output, maximum signal & output. Full scale input from 20 mV to 500 mV. Isolated 10V DC excitation to power up to four 350-ohm load cells in parallel.

Thermocouples*

JC -210 to 760°C NC
JF -347 to 1400°F NC
KC -244 to 1372°C NC
KF -408 to 2501°F NC
NC -245 to 1300°C NC
NF -410 to 2370°F NC
TC -257 to 400°C NC
TF -430 to 752°F NC
EC -270 to 1000°C NC
EF -450 to 1830°F NC
RC -45 to 1768°C NC
RF -49 to 3213°F NC
SC -46 to 1768°C NC
SF -51 to 3214°F NC

RTD Input (with alpha tempco)

P385C Pt 100 Ω platinum, -202 to 850°C NC
P385F Pt 100 Ω platinum, -331 to 1562°F NC
P392C Pt 100 Ω platinum, -202 to 850°C NC
P392F Pt 100 Ω platinum, -331 to 1562°F NC
N672C Ni 120 Ω nickel, -100°C to +260°C NC
N672F Ni 120 Ω nickel, -148°F to +500°F NC
C427C Cu 10 Ω copper, -100°C to +260°C NC
C427F Cu 10 Ω copper, -148°F to +500°F NC

Ohms Input

R1 0-20 ohms NC
R2 0-200 ohms NC
R3 0-2 kohms NC
R4 0-20 kohms NC
R5 0-200 kohms NC
R6 0-2 Mohms (special, fixed)\$25

Accessories

CBL04 RS-232 serial cable from transmitter to DB9 connector of computer or USB adapter\$19
CBL02 USB to DB9 adapter cable\$39

* 5, 10 or 24V excitation output not available with RMS or temperature.

**LAUREATE SERIAL OUTPUT TRANSMITTERS,
"CTR" SERIES, PULSE INPUT**

Includes detachable screw clamp plug connectors, RS232 or RS485, and isolated 5, 10 or 24V DC excitation output. Jumpered for 10V excitation and RS485.

LTMLaureate transmitter, Modbus or Laurel protocol (selectable)\$235

Main Board

6 StandardNC
8 Extended\$40

Power

0 85-264 VacNC
1 Low voltage 12-30 Vac or 10-48 Vdc\$30

Setpoint Output

0 NoneNC
2 Two solid state relaysNC

Scalable Analog Output

0 NoneNC
1 4-20 mA, 0-10 VNC

Input Type

Dual Channel Pulse or AC Inputs

FR Output scalable to -999999 to 9999999NC

Standard main board

Frequency (2 channels simultaneously), rate (2 channels simultaneously), total (up or down, 2 channels simultaneously), period (2 channels simultaneously), stopwatch, time interval, square root of rate.

Extended main board

Above plus rate and total simultaneously, linearized inputs using up to 180 points, ratio, draw, arithmetic functions (A*B, A/B, A+B, A-B), phase angle, duty cycle, up/down counting, batch control.

Process Input with Totalizing

VF1 4-20 mANC
VF2 0-1 mANC
VF3 0-10 VNC
VF4 Custom Scaling Consult factory

Standard main board

Rate, rate & total simultaneously (analog totalizer), square root of rate (for differential pressure or target type flow meters).

Extended main board

Above plus linearized inputs using up to 180 points, batch control with rate, total and # of batches or grand total of all batches, time measurements based on rate.

Quadrature

QD Output scalable to -999999 to +9999999 \$30

Standard main board

Position or length from encoders. Accepts differential or single-ended inputs: 1x, 2x or 4x, plus zero index.

Extended main board

Above plus bidirectional rate (rate and position or length are not simultaneous).

Accessories

CBL04 RS-232 serial cable from transmitter to DB9 connector of computer or USB adapter \$19
CBL02 USB to DB9 adapter cable \$39

QUADRUPLE OUTPUT LOOP SPLITTER. SPLITS ONE 4-20 MA, 1-5V, 0-5V or 0-10V LOOP INTO FOUR 4-20 MA LOOPS.

QLS-1 Loop splitter, 85-264 Vac \$190
QLS-2 Loop splitter, 10-48 Vdc \$220

TRIPLE-OUTPUT 4-20 MA LOOP SPLITTER. SPLITS ONE 4-20 MA LOOP INTO THREE 4-20 MA LOOPS.

TLSA-1 Loop splitter, 95-265 Vac \$255
TLSA-2 Loop splitter, 11-30 Vdc \$280

MAGNA SERIES 2-INCH DISPLAYS

M2 Display with 2-1/4" (57 mm) digits \$515

Display Brightness

0 Normal indoor brightness NC
 1 Daylight viewing brightness \$250

Power

0 95-265 Vac NC
 1 11-30 Vdc \$90

Setpoint Output

0 None NC
 1 Two 5A @ 250Vac relays \$110

Analog Output

0 None NC
 1 4-20mA \$90
 2 0-10V \$90
 3 -5 to 5V \$150

Digital Interface

0 None NC
 1 RS232 \$80
 2 RS485 \$115

Mounting Options

1 Black case, panel-mount \$85
 2 Black case, wall-mount NC
 3 Black case, suspension-mount NC

Input Type**Serial ASCII Input, RS232 or RS485**

SER24 RS232, 4 digits \$85
 SER26 RS232, 6 digits \$385
 SER44 RS485, 4 digits \$120
 SER46 RS485, 6 digits \$420

Clock/Timer

CLK4 4 digits, HH:MM, MM:SS \$135
 CLK6 6 digits, HH:MM:SS \$450

Process Signals (4-20 mA, 0-5V, etc.)

P4 4 digits, 4-20 mA \$100
 P6 6 digits, 4-20 mA \$400

Strain Gauges

WM4 4 digits, 0-20 mV \$125
 WM6 6 digits, 0-20 mV \$425

Frequency, Rate, Total, Quadrature

FR4 4 digit display \$120
 FR6 6 digit display \$420

MAGNA SERIES 4-INCH DISPLAYS

M4 Display with 4" (102 mm) high digits \$800

Display Brightness

0 Normal indoor brightness NC
 1 Daylight viewing brightness \$250

Power

0 95-265 Vac NC
 1 11-30 Vdc \$90

Setpoint Output

0 None NC
 1 Two 5A @ 250Vac relays \$110

Analog Output

0 None NC
 1 4-20mA \$90
 2 0-10V \$90
 3 -5 to 5V \$150

Digital Interface

0 None NC
 1 RS232 \$80
 2 RS485 \$115

Mounting Options

1 Black case, panel-mount \$85
 2 Black case, wall-mount NC
 3 Black case, suspension-mount NC

Input Type**Serial ASCII Input, RS232 or RS485**

SER24 RS232, 4 digits \$85
 SER26 RS232, 6 digits \$485
 SER44 RS485, 4 digits \$120
 SER46 RS485, 6 digits \$520
 TEMP4 TC and RTD, 4 digits \$110

Clock/Timer

CLK4 4 digits, HH:MM, MM:SS \$135
 CLK6 6 digits, HH:MM:SS \$550

Process Signals (4-20 mA, 0-5V, etc.)

P4 4 digits, 4-20 mA \$100
 P6 6 digits, 4-20 mA \$500

Strain Gauges

WM4 4 digits, 0-20 mV \$125
 WM6 6 digits, 0-20 mV \$525

Frequency, Rate, Total, Quadrature

FR4 4 digit display \$120
 FR6 6 digit display \$520

MAGNA SERIES**6-INCH DISPLAYS**

M6 Display with 6 inch (144 mm) high digits . \$1385

Display Brightness

0 Normal indoor brightness NC
1 Daylight viewing brightness \$250

Power

0 95-265 Vac NC
1 11-30 Vdc \$90

Setpoint Output

0 None NC
1 Two 5A @ 250 Vac relays \$110

Analog Output

0 None NC
1 4-20 mA \$90
2 0-10V \$90
3 -5 to 5V \$150

Digital Interface

0 None NC
1 RS232 \$80
2 RS485 \$115

Mounting Options

1 Black case, panel-mount \$85
2 Black case, wall-mount NC
3 Black case, suspension-mount NC

Input Type**Serial ASCII Input, RS232 or RS485**

SER24 RS232, 4 digits \$85
SER26 RS232, 6 digits \$270
SER44 RS485, 4 digits \$120
SER46 RS485, 6 digits \$305

Clock/Timer

CLK4 4 digits, HH:MM, MM:SS \$150
CLK6 6 digits, HH:MM:SS \$335

Process Signals (4-20 mA, 0 to 5V, etc.)

P4 4 digits, 4-20 mA \$100
P6 6 digits, 4-20 mA \$285

Strain Gauges

WM4 4 digits, 0-20 mV \$125
WM6 6 digits, 0-20 mV \$310

Frequency, Rate, Total, Quadrature

FR4 4 digit display \$120
FR6 6 digit display \$300

MAGNA SERIES**8-INCH DISPLAYS**

M8 Display with 8" (200 mm) high digits \$1690

Display Brightness

0 Normal indoor brightness NC
1 Daylight viewing brightness \$250

Power

0 95-265 Vac NC
1 11-30 Vdc \$90

Setpoint Output

0 None NC
1 Two 5A@250Vac relays \$110

Analog Output

0 None NC
1 4-20 mA \$90
2 0-10V \$90
3 -5 to 5V \$150

Digital Interface

0 None NC
1 RS232 \$80
2 RS485 \$115

Mounting Options

1 Black case, panel-mount \$85
2 Black case, wall-mount NC
3 Black case, suspension-mount NC

Input Type**Serial ASCII Input, RS232 or RS485**

SER24 RS232, 4 digits \$85
SER26 RS232, 6 digits \$285
SER44 RS485, 4 digits \$120
SER46 RS485, 6 digits \$320

Clock/Timer

CLK4 4 digits, HH:MM, MM:SS \$170
CLK6 6 digits, HH:MM:SS \$370

Process Signals (4-20 mA, 0-5V, etc.)

P4 4 digits, 4-20 mA \$100
P6 6 digits, 4-20 mA \$300

Strain Gauges

WM4 4 digits, 0-20 mV \$125
WM6 6 digits, 0-20 mV \$330

Frequency, Rate, Total, Quadrature

FR4 4 digit display \$120
FR6 6 digit display \$320

BAR SERIES 1/8 DIN BARGRAPH DISPLAY

BARBAR series 30-segment bargraph display, 1/8 DIN housing\$325

Display Color

1Bargraph with green LED\$15
2Bargraph with red LEDNC

Power

095 to 265 VacNC
111 to 30 Vdc\$45

Setpoint Output

0NoneNC
1Two 5A relays\$45

Format

0VerticalNC
1HorizontalNC

Input Type

Process Signals (4-20 mA, 0-5V, etc.)

P4 to 20 mA = 0 to 100%NC
P1Custom scaling\$15
Specify minimum signal & displayed reading, maximum signal & displayed reading. 15V DC excitation.

88-PRO LOOP POWERED METER

88 PRO88-PRO loop powered meter, 3.5 digit LCD display with two selectable dummy zeros, plug-in screw terminal connectors\$175

M35 MICROMINATURE PANEL METER

M353.5 digit microminature meter in a 1.9" x 0.95" (48 x 24 mm) case. Process input (4-20 mA, etc), isolated 10-30 Vdc power\$200

PRO-BAR LARGE BARGRAPH DISPLAY

PBLarge bargraph, 50-segment display, 11.3" x 2.8" (288 x 72 mm) case\$875

Display Color

2Bargraph with red LEDNC

Power

095 to 265 VacNC
111 to 30 Vdc\$80

Format

0VerticalNC
1HorizontalNC

Mounting Options

0PanelNC
1WallNC
2SuspensionNC

Input Type

Process Signals (4-0mA, 0-5V, etc.)

P4-20 mA = 0-10000 displayNC
P1Custom scaling\$15
Specify minimum signal & displayed reading, maximum signal & displayed reading. 24V DC excitation.

ACCESSORIES

Lens Options for Laureate Meters

(NC when ordered with meter or meter main board)

BLBlank lens, no button padsNC
BL1Lens with no Laurel logo, with button pads ..NC

Enclosures for 1/8 DIN Cases

BOX1Wall mounting polycarbonate enclosure sealed to NEMA 4X\$140

BOX2Wall mounting polycarbonate enclosure sealed to NEMA 4, plus IPC cover\$180

IPCFront panel cover, seals the front of meter case to NEMA 4X\$40

Serial Cables for Laureate Meters & Transmitters

CBL01RJ11 to DB9 cable\$19

CBL02USB to DB9 adapter cable\$39

CBL04RS-232 cable, 3-pin connector on transmitter end, DB9 connector on computer end\$19

CBL05USB cable. Connects meter to PC USB port.\$15

Selector Switches

SW3P12T 3-pole, 12-throw switch\$195

JUNIOR SERIES DPM

JR..... JUNIOR low-cost 3-1/2 digit indicator with plug-in screw terminal connectors..... \$155

Display Color

1 DPM with green LED NC
2 DPM with red LED NC

Power

0 110 Vac NC
1 230 Vac NC
2 24 Vac \$45
3 48 Vac \$45
4 5 Vdc \$60
5 11 to 30 Vdc \$80

Digit Options

0 None NC
1 Extra fixed zero for display to ± 19990 \$45

Connector Options

0 None NC
1 Decimal point selection \$15
2 Variable brightness adjustment \$40

Input Type**DC Volts**

DCV1 200.0 mV NC
DCV2 2.000 V NC
DCV3 20.00 V NC
DCV4 200.0 V NC
DCV5 500 V NC

DC Amperes

DCA1 2.000 mA NC
DCA2 20.00 mA NC
DCA3 200.0 mA NC
DCA4 2.000 A NC
DCA5 5.00 A NC

Process Signals (4-20mA, 0-5V, etc.)

P 4-20 mA = 0-1000 display \$20
P1 Custom scaling \$35
 Specify minimum signal & displayed reading, maximum signal & displayed reading. 10 or 24V DC excitation.

AC Volts (Average)

ACV1 200.0 mV \$35
ACV2 2.000 V \$35
ACV3 20.00 V \$35
ACV4 200.0 V \$35
ACV5 500 V \$35

AC Amperes (Average)

ACA1 2.000 mA \$35
ACA2 20.00 mA \$35
ACA3 200.0 mA \$35
ACA4 2.000 A \$35
ACA5 5.00 A \$35