

ScopeMeter® 190 Series

190 Series II, 190C Series, and 190C Series with Bus Health

ScopeMeter Series II 190-104 and 190-204: The first high-performance four-channel scopes built for harsh industrial environments

Introducing the first high-performance portable oscilloscopes with four independent isolated input channels, an IP 51 dust- and drip-proof rating, and a CAT III 1000 V / CAT IV 600 V safety rating. Choose 200 MHz or 100 MHz bandwidth models. Now, plant maintenance engineers and technicians can take a four-channel scope into the harsh world of industrial electronics.













Technical Data

A new generation of ScopeMeter

The 190 Series II include these new capabilities:

- 4 independent floating isolated inputs, up to 1000 V
- High-speed sampling: Up to 2.5 GS/sec
- Deep memory: 10,000 points per trace waveform capture
- CAT III 1000 V/CAT IV 600 V rated for safety in high voltage environments
- Up to 7 hours of battery operation, standard
- Isolated USB host port for direct data storage to a USB memory device; USB device port for easy PC communication
- Easy access battery door for quick battery swaps in the field
- Compact and only 2.2 kg (4.8 lb)
- Security slot: lock down oscilloscope with Kensington® lock while unattended

ScopeMeter 190C Series and 190 Series II

Rugged performance, speed and ease of use no matter which model you use

All 190 Series models offer:

- IP 51 rating, dust- and drip-proof
- Connect-and-View[™] triggering for intelligent, automatic triggering on fast, slow and even complex signals
- Frequency Spectrum using FFT-analysis
- Automatic capture and REPLAY of 100 screens
- Deep waveform memory storage (up to 10,000 points per input channel)
- 30,000 points or more per input channel using ScopeRecord™ roll mode
- Paperless recorder with deep memory for long-term automatic measurements

Oscilloscope Modes

	190C Series		190 Series II		
	199C, 225C	196C, 215C	192C	190-204	190-104
Vertical deflection	-				
Number of channels	2	2	2	4	4
Bandwidth	200 MHz	100 MHz	60 MHz	200 MHz	100 MHz
Rise time	1.7 ns	3.5 ns	5.8 ns	1.7 ns	3.5 ns
Number of inputs	2	inputs plus external trig	ger	4 input	channels
Channel architecture	All inputs fully	insulated from each oth	er and from ground. Inpu	ts may be activated in ar	y combination.
Input coupling		AC or	DC, with ground level in	dicator	
Input sensitivity			2 mV/div to 100 V/div		
Bandwidth limiter		User selecta	ble: 20 kHz, 20 MHz or fu	ll bandwidth	
Normal/invert		On each	input channel, switched s	separately	
Variable attenuator	Vari	able Gain on input chan	nel A	Variable Gain on e	each input channel
Input voltage	CAT II 1000 V, CAT III 600 V rated – see General Specifications for further details CAT III 1000 V, CAT IV 600 V rated – General Specifications for further details				
Vertical resolution			8 bit		
Accuracy	± (1.5 % of reading + 0.04 x range/div) @ 5 mV/div to 100 V/div ± (2.1 % of reading + 0.04 x range/div) @ 5 mV/div to 100 V/div				
Input impedance	1	$M\Omega \pm 1 \% // 15 pF \pm 2$	pF	1 MΩ ± 1 % //	/ 14 pF ± 2 pF
Horizontal					
Maximum real-time sample rate	2.5 GS/s (2 ch)	1 GS/s (2 ch)	500 MS/s (2 ch)	2.5 GS/s (2 ch) 1.25 GS/s (4 ch)	1.25 GS/s for each channel
Record length	Up	to 3000 samples per cha	nnel	Up to 10,000 san	nples per channel
Time base range	Slower time/divis	v (in 1–2–5–range). sion settings using d Roll mode.	10 ns/div to 5 s/div	5 ns/div to 4 s/div. in a 1-2-4-sequence. Slower time/division settings using ScopeRecord Roll mode.	
Maximum record length	3000 samj	3000 samples per channel (x2) in scope mode		10,000 samples per channel (x4) in scope mode	
	27,000 points per input in ScopeRecord™ roll mode (5 ms/div to 2 min/div)		30,000 points per input in ScopeRecord™ roll mode		
Timing accuracy	± (0.01 % of reading + 1 pixel)				
Glitch capture	50 nsec (5 µsec/div to 1 min/div) 8 ns peak detect on each channel		on each channel		
Display and acquisi	ition				
Display	144 m	m full-color LCD, with ba		J	D with LED backlight
Display modes		Any combina	tion of channels; average	on/off; replay	
Visible screen width	12 divisions horizontally in scope mode				
Persistence modes	Digital persistence off/short/medium/long/infinite; traces fade out in seven levels				
Waveform mathematics	A + B, A - B, A * B, all with user selectable scaling of resultant; A versus B (X-Y-mode); Frequency Spectrum using FFT analysis One mathematical operation on 2 in channels: add/subtract/multiply; all v scalable resultant; X-Y-mode; Freque: Spectrum using FFT analysis		act/multiply; all with -Y-mode; Frequency g FFT analysis		
Acquisition modes	Normal, Average		peRecord™ roll, glitch ca "Pass/Fail testing", Repla		e with automatic



	190C Series		190 Series II		
	199C, 225C	196C, 215C	192C	190-204	190-104
Trigger and delay					
Source	Any of the input channels. All input references isolated from each other and from 'earth ground'.			'earth ground'.	
Modes	Automatic Connect-ar		le shot, edge, delay, dual (channel A only), N-cycle		ne, selectable pulsewidth
Connect-and-View™		de. Automatically display		mplex and dynamic si	nuously adjusts triggering, gnals like motor drive and
Video triggering (on channel A)		NTSC, PAL, PAL+, SI	ECAM. Includes field 1, fi	eld 2 and line select.	
High-Res, non-inter- laced video		_			o with line-select, for line ange 14 kHz up to 65 kHz
Pulse width triggering (on channel A)			d by time. Allows for triggable in minimum steps of		
Time delay	1 full scre	een of pre-trigger view o	or up to 100 screens (=12	200 divisions) of post-	trigger delay
Dual slope triggering		Triggers of	n both rising and falling	edges alike	
N-cycle triggering	Tr	iggers on N-th occurrenc	e of a trigger event; N to	be set in the range 2	to 99
Automatic capture	of 100 screens				
	be pressed to review the or intermittent anomali	e full sequence of screen es and will operate in	events over and over. In "baby-sit" mode capturi	strument can be set u ng 100 specified even	
Replay	Manual or continue		captured 100 screens as screen has date and time		under manual control.
Replay storage	Up to 2 sets of 100 s	screens each can be save analysis.	ed for later recall and	internally for later in storage of addition	reens each can be saved recall and analysis. Direct hal sets on external flash through USB host port.
FFT – frequency sp	ectrum analysis				
	Shows frequen	cy content of oscilloscop	e waveform using Fast Fo	ourier Transform	
Window	Automatic, Hamming, Henning or None				
Automatic window	Digitally re-samples acquired waveform to get optimum frequency resolution in FFT resultant				
Vertical scale	Linear / Logarithmic (in volts or amps)				
Frequency axis	Logarithmic; frequency range automatically set as function of timebase range of oscilloscope User selectable: lin or log. Frequency automatically set as a function of timebase range of oscilloscope.		as a function of timebase		
Waveform compare	and pass/fail testing	g			
Waveform compare	Provides storage and display of a reference waveform for visual comparison with newly acquired waveforms. Reference is derived from an acquired waveform and can be modified in the ScopeMeter or externally using FlukeView Software.				
Pass/Fail Testing	In waveform compare mode, the ScopeMeter can be set up to store only matching ("Pass") or only non-matching ("Fail' acquired waveforms in the replay memory bank for further analysis				
Automatic scope m	easurements				
cursors), Power Fact	Vdc, Vac rms, Vac+dc, Vpeak max, Vpeak min, Vpeak to peak, Aac, Adc, Aac+dc, frequency (in Hz), risetime (using cursors), falltime (using cursors), Power Factor (PF), Watts, VA, VA reactive, phase (between any 2 inputs), pulsewidth (pos./neg.), dutycycle (pos./neg.), temperature °C, temperature °F, dBV, dBm into 50 Ω and 600 Ω, VPWM ac and VPWM ac+dc for measurement on pulsewidth modulated motordrives and frequency inverters			(pos./neg.), temperature	
Advanced functions		_		V*s (voltage over tir	r-time, between cursors) ne, between cursors) W*s etween cursors)
Cursor measuremen	nts				
Source	On	any input waveform or o	on mathematical resultan	t waveform (excl. X-Y-	-mode)
Dual horizontal lines	Voltage at cursor 1 and at cursor 2, voltage between cursors				
Dual vertical lines	Time between	Time between cursors, 1/T between cursors (in Hz), voltage between markers, risetime with markers, falltime with markers; Vrms between cursors, Watts between cursors			
Single vertical line	Min-Max and Average	voltage at cursor position	n; frequency and rms-val Result	ue of individual freque	ncy component in the FFT
ZOOM	1	Jp to 16x horizontal zooi	m		ord overview to zoom in up , at any record length

Bus Health Test Mode (225C and 215C models only)

Bus Health automatically analyzes the electrical signals on the industrial bus system to measure individual parameters and to give waveform information. Automatically compares the measurement results to preset values and present 'good,'weak' or 'false' indicator with each parameter.		
Bus types and reference standards used • AS-i (EN50295, 166 kb/s);		
	• CAN-bus (ISO-11898, up to 1 Mb/s);	
 Modbus (EIA-232 up to 115 kb/s and EIA-485 up to 10 Mb/s); Foundation Fieldbus H1 (61158 type 1, 31.25 kb/s); 		
	• Ethernet [10Base2 (coaxial) and 10BaseT (UTP)], 10 Mb/s;	
	• Ethernet 100BaseT (100 Mb/s);	
 RS-232 (EIA-232, up to 115 kb/s); RS-485 (EIA-485, up to 10 Mb/s). 		
		Measured parameters (where applicable)

Meter Mode

	190C Series	190 Series II			
	199C, 196C, 192C, 215C, 225C,	190-204, 190-104			
Meter inputs	Via 4 mm banana inputs, fully isolated from scope inputs and scope ground	Up to four automatic meter measurements can be made at the same time, using the oscilloscope input channels			
		The specified accuracy is valid over the temperature range 18 °C to 28 °C (65 °F to 82 °F). Add 10 % of specified accuracy for each degree C below 18 °C or above 28 °C.			
Maximum resolution	5,000 counts	999 counts			
Meter input impedance	1 MΩ ± 1 % // 10 pF ± 2 pF	(thru scope channel:) 1 M Ω \pm 1 % // 14 pF \pm 2 pF			
Advanced meter functions	Auto/manual ranging, relative measurement	ents (Zero reference), TrendPlot recording			
Vdc, Vac, Vac+dc					
Vdc accuracy	± (0.5 % + 5 counts)	± (1.5 % + 5 counts)			
Vac true rms accuracy					
15 Hz to 60 Hz:	± (1 % + 10 counts)	± (1.5 % + 10 counts)			
60 Hz to 1 kHz:	± (2.5 % + 15 counts)				
60 Hz to 20 kHz:	_	± (2.5 % + 15 counts)			
Vac+dc true rms accuracy					
15 Hz to 60 Hz:	± (1 % + 10 counts)	± (1.5 % + 10 counts)			
60 Hz to 1 kHz:	± (2.5 % + 15 counts)				
60 Hz to 20 kHz:	_	± (2.5 % + 15 counts)			
Voltmeter ranges	500 mV, 5 V, 50 V	500 mV, 5 V, 50 V, 500 V, 1,000 V			
Ohms					
Ranges	500 Ω, 5 kΩ, 50 kΩ, 500 kΩ, 5 MΩ, 30 MΩ	_			
Accuracy	± (0.6 % + 5 counts)	_			
Other meter functions					
Continuity	Beeper on $<$ 50 Ω (± 30 Ω)	_			
Diode test	Up to 2.8 V	_			
Amps	Adc, Aac, Aac + dc using an optional current clamp or shunt. Scaling factors: 0.1 mV/A, 1 mV/A, to 100 V/A and 400 mV/A				
Temperature	With optional accessories. Scale factors 1 °C/mV or 1 °F/mV				



Recorder Modes

	190C	Series	190 Series II	
	199C, 196C, 19	2C, 215C, 225C,	190-204, 190-104	
ScopeRecord™ Roll Mode				
-	ual or multiple input waveform s	storage mode, using deep	memory	
Source and display	Input A, In	put B, Dual	Any combination of inputs, up to 4 channels. All channels sampled simultaneously.	
Bandwidth		20 MHz or 20 kH	z, user selectable	
Memory depth	27,000 or	more data points, each h	olding min/max. pair of information	
Min/max values	Min/max values are	measured at high sample	e rate ensuring capture and display of glitches	
Recording modes	Start-on-Trigger (continuous roll, through external), (through external)	Single sweep, continuous roll, Start-on-Trigger (through any channel) Stop-on-Trigger (through any channel)	
Stop-on-trigger	ScopeRecord mode c repetitive triggers	an be stopped by an indi signal, through any input	vidual trigger event, or by an interruption of a channel (through External on 190C Series)	
Horizontal scale		Time from sta	rt, time of day	
Zoom	Ranges from full	record overview to zoom	in up to sample level, at any record length	
Memory		eRecord waveforms can recall and analysis.	Two multiple input ScopeRecord waveforms can be saved internally for later recall and analysis. Direct storage on external flash memory drive through USB host port.	
ScopeRecord sample rate and reco	ording timespan			
Time base range	5 ms/div to 1 min/div	2 min/div	5 ms/div ~ 2 min/div	
Recorded timespan	6 sec to 24 hr	48 hr	6 sec ~ 48 hr	
Time/division in 'view all' mode			0.5 s/div. ~ 4 h/div	
Glitch capture	50 ns	250 ns	8 ns	
Sample rate	20 MS/s	4 MS/s	125 MS/s	
Resolution	200 µsec to 2 sec	4.8 sec	200 μsec ~ 4.8 sec	
Trendplot™ Recording				
	recorder. Plots, display	ectronic paperless chart is and stores meter and surements.	Multiple channel electronic paperless recorder. Graphically plots, displays and stores results of up to 4 automatic scope measurement over time.	
Source and display	Any combin	nation of measurements,	made on any of the input channels	
Memory depth		18,000 points record per input. Each recorded sample point contains a minimum, a maximum and an average value, plus a date- and timestamp.		
Ranges		Normal view: 5 s,	/div to 30 min/div	
	In view-a	all mode: 5 min/div to 4	8 hr/div (overview of total record)	
Recorded time span	Up to 22 days with a	Up to 22 days with a resolution of 1 minute More than 22 days, with a resolution of 102 seconds		
Recording mode		ne duration of the full e timespan	Continuous recording, starting at 5 s/div. with automatic record compression	
Measurement speed		5 automatic measureme	ents per second or more	
Horizontal scale		Time from sta	rt, time of day	
Zoom	Up to 6	4x zoom	Up to 64x zoom-out for full record overview, up to 10x zoom-in for maximum detail.	
Memory	later recall a	rdings can be saved for and analysis.	Two multiple input TrendPlot records can be saved internally for later recall and analysis. Direct storage on external flash memory drive through USB host port.	
Cursor measurements – all record	der modes			
Source	Any waveform trac	Any waveform trace in any waveform display mode (Scope, ScopeRecord or TrendPlot)		
Dual vertical lines		Cursors may be used to identify Min, Max or Average value of any datapoint in a record, with time between cursors, time from start or absolute time.		

General Specifications

	190C Series	190 Series II
	199C, 196C, 192C, 215C, 225C,	190-204, 190-104
Input voltage ratings		
Rated input voltage and max. floating voltage	CAT II 1000 V, CAT III 600 V	CAT III 1000 V, CAT IV 600 V
	Maximum voltage between any con	itact and earth-ground voltage level
Maximum probe voltage	CAT II 1000 V, CAT III 600 V	CAT III 1000 V, CAT IV 600 V
		rd 10:1 probe tip and reference lead
Maximum BNC input voltage		CAT IV
Manimum malka ma an makan immuk	-	n BNC input directly
Maximum voltage on meter input	CAT II 1000 V, CAT III 600 V Safety designed banana input connectors	_
Memory save and recall	Suicty designed building input connectors	
Memory locations	15 waveform memories n	lus 2 recording memories
15 waveform memory locations	Stores Scope-trace waveform data (2 traces each) plus screen-copy plus corresponding setup	Stores Scope-trace waveform data (4 traces each) plus screen-copy plus corresponding setup
2 recording memories	Each may contain: • a 100 Screen Replay sequence, or • a ScopeRecord Roll-mode recording (2 traces), or • a TrendPlot recording of 2 measurements	Each may contain: • a 100 Screen Replay sequence, or • a ScopeRecord Roll-mode recording (4 traces), or • a TrendPlot recording of 4 measurements
External data storage	On PC, using FlukeView™ Software	On PC, using FlukeView™ Software, or Direct storage on external flash memory drive through USB host port
Screencopies	On PC, using FlukeView Software	On PC, using FlukeView™ Software, or Internally (in instrument) which can be copied on to external flash memory drive as .BMP-file, through USB host port
Volatility	Data is stored in RAM which is maintained by the instrument's main battery	Measurement data is initially stored in RAM, which is maintained by the main battery with a 30 seconds back-up when battery is exchanged. When storing data, this is written in non-volatile flash-ROM.
Real-time clock	Provides date and time stamp information for ScopeRecord, for 100 Screen Replay sequences and for TrendPlot recordings	
Case		
Design		ntegrated protective holster. ap included as standard.
Drip and dust proof	IP 51 accordi	ing to IEC529
Shock and vibration		according to MIL-PRF-28800F Class 2
Display size	115.2 mm x 86.4 mm (4.54 in x 3.4 in); 144 mm (5.67 in) diagonal LCD	127 mm x 88 mm (153 mm diagonal) LCD
Resolution		40 pixels
Contrast and brightness	-	perature compensated
Brightness	80 cd/m² typ. using power adapter	200 cd/m² typ. using power adapter, 90 cd/m² typ. using battery power
Mechanical data		
Size	256 mm x 169 mm x 64 mm (10.1 in x 6.6 in x 2.5 in)	265 mm x 190 mm x 70 mm (10.5 in x 7.5 in x 2.8 in)
Weight (incl. battery)	2 kg (4.4 lb)	2.2 kg (4.8 lb)
Power		
Line power	1 7 5	included, version depending of country
Battery power	Rechargeable NiMH BP190 (installed)	Rechargeable double capacity Li-ion battery BP291 (included). Battery swappable through easily accessible battery door at the rear of the instrument.
Battery charge indicator	Battery status indicator on instrument screen	Battery has built-in status indicator for use with external charger, next to battery status indicator on instrument screen



	190C Series	190 Series II	
	199C, 196C, 192C, 215C, 225C,	190-204, 190-104	
Battery operating time (with backlight low)	> 31/2 hours	Up to 7 hours using BP291 (included)	
Battery charging time	4 hours	5 hours	
Battery power saving functions	Auto 'power down' with adjustable power down time. On-screen battery power indicator.	Auto 'power down' with adjustable power down time; Auto 'Display off' with adjustable power down time; On-screen battery power indicator.	
Safety			
Compliance	EN61010-1-2001, Pollution Degree 2; UL61010B, with approval; CAN/CSA C22.2, No. 61010-1-04, with approval; ANSI/ISA-82.02.01	EN61010-1-2001, Pollution Degree 2; CAN/CSA C22.2, No. 61010-1-04, with approval; UL61010B; ANSI/ISA-82.02.01	
Environmental			
Operating temperature	0 °C ~ +50 °C	0 °C \sim +40 °C incl. battery +40 °C \sim +50 °C excl. battery	
Storage temperature	-20 °C ~ +60 °C		
Humidity	+10 °C \sim +30 °C: 95 % RH non-condensing +30 °C \sim +40 °C: 75% RH non-condensing +40 °C \sim +50 °C: 45% RH non-condensing		
Maximum operating altitude	3,000 m (10,000 feet)	Up to 2,000 m (6666 ft) for CAT IV 600 V, CAT III 1000 V; up to 3,000 m (10,000 ft) for CAT III 600 V, CAT II 1000 V	
Maximum storage altitude	12 km (40,000 ft)		
Electro-Magnetic-Compatibility (EMC)	EN 61326-1 for emission and immunity	EN 61326-1 (2005-12) for emission and immunity	
Interface	Optical port in instrument transfers instrument settings, screen images and waveform data, compatible with FlukeView® software for Windows®, via optional OC4USB or PM9080 (optical to electrical interface cable)	Two USB ports provided. Ports are fully insulated from instrument's floating measurement circuitry. USB-host port directly connects to external flash memory drive for storage of waveform data, measurement results, instrument settings and screen copies. A mini-USB-B is provided which allows for interconnection to PC for remote control and data transfer under PC-control.	
Warranty	Three-years (parts and labor) on main instrument, one-year on accessories		
Probe calibration output	(through DMM-input banana connectors)	Dedicated probe-cal output with reference contact provided, fully insulated from any measurement input channel	

FlukeView® ScopeMeter® Software

FlukeView ScopeMeter software helps you get more out of your ScopeMeter:

- Store instrument's screen copies on the PC, in color
- Copy screen images into your reports and documentation
- Capture and store waveform data from your ScopeMeter on your PC
- Create and archive waveform references for automatic or visual comparison
- Includes waveform analysis, e.g. FFT spectrum analysis
- Copy waveform data into your spreadsheet for detailed analysis
- Use cursors for parameter measurement

System requirements

- Microsoft® Windows® XP and beyond
- CD-ROM drive
- One free USB port

Supported Instruments

With the new release V5, the following typenumbers are supported:

- Fluke 190C-series (225C, 215C, 199C, 196C, 192C, using an OC4USB or PM9080 interface cable);
- Fluke 190B-series (199B, 196B, 192B, using an OC4USB or PM9080 interface cable);
- 190-series II (190-204 and 190-104, using USB-cable);
- 120-series (123, 124, 125, using an OC4USB or PM9080 interface cable).



Accessories

	190C Series		190 Series II		
		199C, 196C, 192C, 215C, 225C,		190-204, 190-104	
Standard acc	essories				
	BC190	Mains adapter/battery charger for any 190-series	instrument		
Battery (type)	BP190	NiMH battery	BP291	Li-ion battery	
Voltage probes and test leads	VPS210	Probe sets, 10:1 (1 red, 1 grey) including hook- clips, ground leads with mini-alligator clips, ground springs and probe-tip insulation sleeves	VPS410	Probe-sets, 10:1 (1 red, 1 blue, 1 grey, 1 green) including hookclips, ground leads with minialligator clips, ground springs and probe-tip	
	TL75	Test lead set (1 red, 1 black)		insulation sleeves	
Other	BHT190	Bus Health Test Connection Set (included with Fluke 225C and 215C models only)	FlukeView of USB interface	demo package (with restricted functionality); ce cable for PC connectivity	
	Handstrap	(affixed to instrument) and hangstrap	Users manu	al on CD-ROM	
Optional acc	essories				
	SW90W	FlukeView ScopeMeter software package (full version)	SW90W	FlukeView ScopeMeter software package (full version)	
	C190	Hard Shell Carrying Case for 190C Series	C290	Hard Shell Carrying Case for 190 Series II	
	SCC190	FlukeView Software, OC4USB-cable and C190 Carrying Case Kit	SCC290	Software and Carrying Case kit; includes FlukeView Software and C290 Carrying Case	
	BP190	Rechargeable NiMH Battery Pack for Fluke 190C Series	BP291	Double capacity Li-ion Battery (4800 mAh) for Fluke 190 Series II	
	VPS210	Voltage probe set, 10:1. Red and grey sets available	VPS410-x	Voltage probe set 10:1. Available colors: VPS410-R (red), VPS410-B (blue), VPS410-G (grey) and VPS410-V (green)	
	OC4USB	Optically isolated interface cable for USB	VPS420-R	High Working Voltage Ruggedized Probe, 100:1, red/black	
	PM9080	Optically isolated interface cable for RS-232	EBC290	External Battery Charger, charges BP291 while outside instrument	
	AS200	Probe accessory extension set for VPS210 Series probes	HH290	Hanging Hook	
	RS200	Probe accessory replacement set for VPS210 Series probes	AS400	Probe accessories extension set for VPS410 Series probes	
			RS400	Probe accessories replacement set for VPS410 Series probes	

Fluke also offers a wide range of optional accessories like temperature probes, current clamps, high voltage probes, cables, adapters and carrying cases to further assist you in your job. See the Fluke website or contact your distributor for details.

Ordering Information

190-104	Color ScopeMeter (200 MHz, 4 channel) Color ScopeMeter (200 MHz, 4 channel), with SCC290-kit Color ScopeMeter (100 MHz, 4 channel) Color ScopeMeter (100 MHz, 4 channel), with SCC290-kit Color ScopeMeter (200 MHz/2.5 GS/s) with Bus Health Test Functions Color ScopeMeter (200 MHz/2.5 GS/s) with Bus Health Test + SCC190 Color ScopeMeter (100 MHz/1 GS/s) with Bus Health Test Functions Color ScopeMeter (100 MHz/1 GS/s) with Bus Health Test + SCC190 kit Color ScopeMeter (200 MHz/2.5 GS/s) Color ScopeMeter (200 MHz/2.5 GS/s) Color ScopeMeter (100 MHz/1 GS/s)
192C 192C/S	Color ScopeMeter (60 MHz/500 MS/s) Color ScopeMeter (60 MHz/500 MS/s) + SCC190 kit

Fluke. Keeping your world up and running.®

Fluke Corporation PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V.
PO Box 1186, 5602 BD Eindhoven, The Netherlands

For more information call:

In the U.S.A. (800) 443-5853 or Fax (425) 446-5116

In Europe/M-East/Africa +31 (0) 40 2675 200 or Fax +31 (0) 40 2675 222

In Canada (800)-36-FLUKE or Fax (905) 890-6866

From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116 Web access: http://www.fluke.com

©2010 Fluke Corporation. Specifications subject to change without notice. Printed in U.S.A. 10/2010 3801685A A-EN-N

Modification of this document is not permitted without written permission from Fluke Corporation.