

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 trigg	ger	4 input	channels
Channel architecture	All inputs fully	insulated from each other	er and from ground. Inpu	ts may be activated in ar	ny combination.
Input coupling		AC or	DC, with ground level in	dicator	
Input sensitivity			2 mV/div to 100 V/div		
Bandwidth limiter		User selectal	ole: 20 kHz, 20 MHz or fu	ıll bandwidth	
Normal/invert		On each i	input channel, switched	separately	
Variable attenuator	Vari	able Gain on input chanr	nel A	Variable Gain on e	each input channel
Input voltage	CAT II 1000 V, CAT I	II 600 V rated – see Gen further details	eral Specifications for		IV 600 V rated – see ns 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 @ 5 mV/div	+ 0.04 x range/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 channel		Up to 10,000 san	nples per channel	
Time base range	Slower time/divis	(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 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 pi	ixel)	
Glitch capture	50 nsec (5 µsec/div to 1 min/div) 8 ns peak detect on each channel		on each channel		
Display and acquisi	tion				
Display	144 m	m full-color LCD, with ba	acklight	153 mm full-color LC	D with LED backlight
Display modes	Any combination 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 inp channels: add/subtract/multiply; all w scalable resultant; X-Y-mode; Frequency 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'.				
Modes	Automatic Connect-ar	Automatic Connect-and-View™, free run, single shot, edge, delay, dual slope, video, video line, selectable pulsewidth (channel A only), N-cycle			e, selectable pulsewidth
Connect-and-View™		de. Automatically displays		mplex and dynamic sig	uously adjusts triggering, nals like motor drive and
Video triggering (on channel A)		NTSC, PAL, PAL+, SE	ECAM. Includes field 1, fie	eld 2 and line select.	
High-Res, non-inter- laced video		_			with line-select, for line nge 14 kHz up to 65 kHz
Pulse width triggering (on channel A)			I by time. Allows for trigg ble in minimum steps of		
Time delay	1 full scre	een of pre-trigger view o	r up to 100 screens (=12	200 divisions) of post-tr	igger delay
Dual slope triggering		Triggers or	n both rising and falling (edges alike	
N-cycle triggering		iggers on N-th occurrence	e of a trigger event; N to	be set in the range 2 to	o 99
Automatic capture	of 100 screens				
	be pressed to review the or intermittent anomali	e full sequence of screen es and will operate in		strument can be set up ng 100 specified events	
Topiay	widiluai oi coiitiilut		creen has date and time-		naor manuar contitui.
Replay storage	Up to 2 sets of 100 s	screens each can be save analysis.	ed for later recall and	internally for later re storage of additiona	eens each can be saved scall and analysis. Direct al sets on external flash rough USB host port.
FFT – frequency sp	ectrum analysis			,	
. , , ,		cv content of oscilloscope	e waveform using Fast Fo	urier 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		ency range automatically nebase range of oscillosco		automatically set as	or log. Frequency range a function of timebase oscilloscope.
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 me	easurements				
cursors), Power Facto	dc, Vpeak max, Vpeak m or (PF), Watts, VA, VA rea BV, dBm into 50 Ω and 6	active, phase (between ar 600 Ω, VPWM ac and VPV	ny 2 inputs), pulsewidth	(pos./neg.), dutycycle (p	oos./neg.), temperature
Advanced functions		-		V*s (voltage over tim	time, between cursors) e, between cursors) W*s tween cursors)
Cursor measuremen	nts				
Source	On	any input waveform or o	on mathematical resultan	t waveform (excl. X-Y-n	node)
Dual horizontal lines		Voltage at cursor	1 and at cursor 2, voltage	e between cursors	
Dual vertical lines	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	ı; frequency and rms-valı Result	ue of individual frequen	cy component in the FFT
ZOOM	Ţ	Jp to 16x horizontal zoon	n		d overview to zoom in up at any record length

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

	al signals on the industrial bus system to measure individual parameters and to give waveform urement 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);
 Profibus DP (EIA-485 up to 10 Mb/s) and PA (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)	Bias voltage level, signal amplitude, pulse width or baud rate, risetime, fall time, jitter, signal distortion, noise HF, noise LF, in-band noise

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 Add 10 % of specified accuracy for each degree C below 18 °C or		perature range 18 °C to 28 °C (65 °F to 82 °F). In 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 ± 1 % // 14 pF ± 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, 192	2C, 215C, 225C,	190-204, 190-104	
ScopeRecord™ Roll Mode				
Dual o	or multiple input waveform s	torage 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 1	more data points, each h	olding min/max. pair of information	
Min/max values	Min/max values are	measured at high sample	rate ensuring capture and display of glitches	
Recording modes	Single sweep, o Start-on-Trigger (Stop-on-Trigger (through external),	Single sweep, continuous roll, Start-on-Trigger (through any channel) Stop-on-Trigger (through any channel)	
Stop-on-trigger			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 r	record overview to zoom	in up to sample level, at any record length	
Memory	Up to 2 dual input Scop be saved for later r		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 record	ing 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				
	Single or dual input ele recorder. Plots, display scope mea:		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/	s/div to 30 min/div	
	In view-a	all mode: 5 min/div to 48	3 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		
Recording mode	Continuous roll for th recordable	e duration of the full 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 64	1x zoom	Up to 64x zoom-out for full record overview, up to 10x zoom-in for maximum detail.	
Memory	Up to 2 TrendPlot recordings can be saved for later recall 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 recorder	modes			
Source	Any waveform trace	e in any waveform displ	ay 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	ntact 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	
	-	n BNC input directly	
Maximum voltage on meter input	CAT II 1000 V, CAT III 600 V Safety designed banana input connectors	_	
Wemens and regali	Safety designed banana input connectors		
Memory save and recall Memory locations	15 wayoform momoriog r	blus 2 recording memories	
<u>, </u>	<u> </u>	Stores Scope-trace waveform data (4 traces	
15 waveform memory locations	Stores Scope-trace waveform data (2 traces each) plus screen-copy plus corresponding setup	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 sequence and for TrendPlot recordings		
Case			
Design	Rugged, shock-proof with integrated protective holster. Handstrap and hangstrap included as standard.		
Drip and dust proof	IP 51 according 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	320 x 240 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		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 (4	0,000 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)		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

190-204	Color ScopeMeter (200 MHz, 4 channel)
190-204/S	Color ScopeMeter (200 MHz, 4 channel), with SCC290-kit
190-104	Color ScopeMeter (100 MHz, 4 channel)
190-104/S	Color ScopeMeter (100 MHz, 4 channel), with SCC290-kit
225C	Color ScopeMeter (200 MHz/2.5 GS/s) with Bus Health Test Functions
225C/S	Color ScopeMeter (200 MHz/2.5 GS/s) with Bus Health Test + SCC190
215C	Color ScopeMeter (100 MHz/1 GS/s) with Bus Health Test Functions
215C/S	Color ScopeMeter (100 MHz/1 GS/s) with Bus Health Test + SCC190 kit
199C	Color ScopeMeter (200 MHz/2.5 GS/s)
199C/S	Color ScopeMeter (200 MHz/2.5 GS/s) + SCC190
196C	Color ScopeMeter (100 MHz/1 GS/s)
196C/S	Color ScopeMeter (100 MHz/1GS/s) + SCC190
192C	Color ScopeMeter (60 MHz/500 MS/s)
192C/S	Color ScopeMeter (60 MHz/500 MS/s) + SCC190 kit

Fluke. Keeping your world up and running.®

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