

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 Se	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. Input	ts may be activated in an	y combination.
Input coupling		AC or	DC, with ground level inc	dicator	
Input sensitivity			2 mV/div to 100 V/div		
Bandwidth limiter		User selectab	ole: 20 kHz, 20 MHz or fu	ll bandwidth	
Normal/invert		On each i	nput channel, switched s	separately	
Variable attenuator	Vari	able Gain on input chann	nel A	Variable Gain on e	each input channel
Input voltage	CAT II 1000 V, CAT II	II 600 V rated – see Gene further details	eral Specifications for		IV 600 V rated – see
Vertical resolution			8 bit		
Accuracy	\pm (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	$1 \text{ M}\Omega \pm 1 \% // 15 \text{ pF} \pm 2 \text{ pF}$		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	5 ns/div to 5 s/div (in 1-2-5-range). Slower time/division settings using ScopeRecord Roll mode. 10 ns/div to 5 s/div 5 ns/div to 4 s/div in a 1-2- Slower time/division sett ScopeRecord Roll mode.		ion settings using		
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	0.01 % of reading + 1 pi	xel)	
Glitch capture	50 nsec (5 µsec/div to 1 min/div) 8 ns peak detect on each channe		on each channel		
Display and acquisit	ion				
Display	144 m	m full-color LCD, with ba	cklight	153 mm full-color LC	CD 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			vels	
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		channels: add/subtr scalable resultant; X Spectrum usin	operation on 2 input act/multiply; all with K-Y-mode; Frequency ng FFT analysis	
Acquisition modes	Normal, Averaged, Auto, Single Shot, ScopeRecord™ roll, glitch capture, waveform compare with automatic "Pass/Fail testing", Replay				



		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	nd-View™, free run, sing	le shot, edge, delay, dual (channel A only), N-cycle		ne, selectable pulsewidth
Connect-and-View™		de. Automatically display		mplex and dynamic si	inuously adjusts triggering, gnals 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		_			eo with line-select, for line range 14 kHz up to 65 kHz
Pulse width triggering (on channel A)		where t is selecta	d by time. Allows for triggable in minimum steps of	0.01 div or 50 ns.	
Time delay	1 full scr	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 occurrence	ce of a trigger event; N to	be set in the range 2	to 99
Automatic capture	of 100 screens				
	n be pressed to review the or intermittent anomal	e full sequence of screen les and will operate in		strument can be set uning 100 specified even	
періау	ivialitial of continu		screen has date and time-		under manuar control.
Replay storage	Up to 2 sets of 100	screens each can be save analysis.	ed for later recall and	internally for later is storage of addition	creens 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	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	Logarithmic; frequency range automatically set as function of timebase range of oscilloscope User selectable: lin or log. Frequenc automatically set as a function of timebase range of oscilloscope.		as a function of timebase		
Waveform compare	and pass/fail testing	3			
Waveform compare	Provides storage and display of a reference waveform for visual comparison with newly acquired waveforms. Reference derived from an acquired waveform and can be modified in the ScopeMeter or externally using FlukeView Software.				
Pass/Fail Testing	In waveform compare	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				
Power Factor (PF), Watt	ts, VA, VA reactive, phase	(between any 2 inputs),	pulsewidth (pos./neg.), d	utycycle (pos./neg.), te	ors), falltime (using cursors), emperature °C, temperature es and frequency inverters
Advanced functions		_		V*s (voltage over ti	er-time, between cursors) me, between cursors) W*s between cursors)
Cursor measureme	nts				
Source	Or	any input waveform or	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 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-valu Result	ue of individual freque	ency component in the FFT
ZOOM	1	Jp to 16x horizontal zoor	m		ord overview to zoom in up l, 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	
		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	$1 \text{ M}\Omega \pm 1 \% // 10 \text{ pF} \pm 2 \text{ pF}$	(thru scope channel:) 1 M Ω \pm 1 % // 14 pF \pm 2 pF	
Advanced meter functions	Auto/manual ranging, relative measurem	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, 5		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 $< 50 \Omega (\pm 30 \Omega)$	_	
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				
Dual	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 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		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			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	eRecord waveforms can ecall 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 record	ling 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 combir	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 48	3 hr/div (overview of total record)	
Recorded time span	Up to 22 days with a	resolution of 1 minute	More than 22 days, with a resolution of 102 seconds	
Recording mode	Continuous roll for th	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 64	4x zoom	Up to 64x zoom-out for full record overview, up to 10x zoom-in for maximum detail.	
Memory	Up to 2 TrendPlot recor later recall a		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		
1 0 0		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		
-	Maximum voltage between standar	rd 10:1 probe tip and reference lead		
Maximum BNC input voltage	300 V CAT IV			
	Maximum voltage o	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				
Memory locations	15 waveform memories p	plus 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 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 accordi	ing to IEC529		
Shock and vibration	Shock 30 g, vibration (sinusoidal) 3 g	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 24	40 pixels		
Contrast and brightness	J . 1	perature compensated		
Brightness	80 cd/m ² 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	Mains adapter/battery charger BC190	included, version depending of country		
Battery power	Rechargeable NiMH BP190 (installed) Rechargeable double capacity Li-ior BP291 (included). Battery swappable easily accessible battery door at the 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)		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

190-104 190-104/S 225C 225C/S 215C 215C/S 199C 199C/S 196C 196C/S	Color ScopeMeter (200 MHz, 4 channel) Color ScopeMeter (200 MHz, 4 channel), with SCC290-kit Color ScopeMeter (100 MHz, 4 channel), with SCC290-kit 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) + SCC190 Color ScopeMeter (100 MHz/1 GS/s) Color ScopeMeter (100 MHz/1 GS/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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