

NEW Fluke Portable Oscilloscopes

190 Series ScopeMeters

- Dual-Channel, 60, 100, or 200 MHz Bandwidths
- Up to 2.5 GS/s Real-Time Sampling Per Input
- Connect and View™ Automatic Triggering, a Full Range of Manual Triggering Modes Plus External Triggering
- 24 Automatic Waveform Measurements
- Cursors, Zoom, and Real-Time Clock
- 1000V Safety Certified Independently Floating Isolated Inputs
- Includes a Built-in 5000-Count True RMS Multimeter and a TrendPlot™ Paperless Recorder



New Fluke ScopeMeter 190C Series Enhancements

- Waveform reference, programmable via FlukeView software
- Pass/Fail testing
- Programmable setup names
- Sensitivity improved to 2 mV/Div from 5 mV/Div
- New Version 4.1 FlukeView® Forms software

Waveform Pass/Fail Testing

"Waveform reference" allows an acquired trace to be stored and designated "reference trace" for visual comparisons, or it can be used as the reference for automatic "Pass/Fail" testing (190C). Up to 100 individually matching ("Pass") or non-matching ("Fail") waveforms can be stored in the replay memory.

Automatic capture and replay of 100 screens

In normal use, the instrument continuously memorizes the last 100 screens. Each time a new screen is acquired, the oldest is discarded. At any moment, you can "freeze" the last 100 screens and scroll through picture-by-picture or replay as a "live" animation. You can even use the advanced trigger capabilities to capture up to 100 specific events. Two sets of 100 captured screens with individual time stamps can be stored for later recall or download to a PC.

Connect-and-View™

Automatic triggering for an instant, stable display found in 123 and 190. Fluke's unique Connect-and-View recognizes signal patterns, and automatically sets up correct triggering. It provides a stable, reliable and repeatable display of virtually any signal without touching a button. Signal changes are instantly recognized and settings adjusted for a stable display.

120 Series ScopeMeters

Fluke ScopeMeter 120 Series

- Two 5,000 Counts True-RMS Digital Multimeters
- A Dual-input TrendPlot™ Recorder
- Connect-and-View™ Trigger for Hands-off Operation
- Shielded Test Leads for oscilloscope, resistance and continuity measurements
- 600 V CAT III Safety Certified
- Seven-hour Ni-MH Battery Pack
- Optically Isolated RS-232
- Rugged, Compact Case

NEW Fluke ScopeMeter 124 Enhancements Over ScopeMeter 123

- Dual-input 40 MHz bandwidth (vs. 20 MHz for Fluke 123)
- Memory Storage for 20 Recordings (vs. 10 recordings for Fluke 123)
- Dual Horizontal, Vertical and Single Cursors
- 10:1 Voltage Probe Included with Fluke 124



The compact ScopeMeter 120 Series is the rugged solution for industrial troubleshooting and installation applications. It's a truly integrated test tool, with oscilloscope, multimeter and "paperless" recorder in one affordable, easy-to-use instrument. Find fast answers to problems in machinery, instrumentation, control and power systems. Floating measurements, safety certified the Fluke 120 Series makes floating measurements so there's no risk of an accidental ground short circuit when making a connection. The Fluke ScopeMeter 120 Series test tools and the included shielded test leads are safety certified for measurements on 600 V CAT III industrial power systems. Battery powered mobility Up to seven hours of battery operation frees you from mains outlets for true on-the-move working.

TrendPlot™

In this "paperless recorder" mode, you can plot the minimum and maximum peak values and average over time - up to 22 days. The two inputs can plot any combination of volts, amps, temperature, frequency and phase with time and date stamp.



Measure from mV to kV - fully isolated and safely!

The ScopeMeter 190C and 190B series have three independently floating isolated inputs. All inputs are safety certified for measurements in 1000V CAT II and 600V CAT III environments.

Replay Last 100 Screens

NEW Fluke Portable Oscilloscopes

FlukeView® software — For 190C, 190, 123, 124 or 90 B Series Industrial ScopeMeter

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

DOCUMENTING: Transfer screens, waveforms, and measurement data from the ScopeMeter to your PC for printing, or importing data to other programs.

ARCHIVING: Store and retrieve waveforms with text annotations and create your own library for easy reference and comparison.

ANALYSIS: Gather valuable measurement data and enable cursor measurements to reveal relationships and conditions. Extended recording of up to four user-selected measurements help you monitor and analyze slow moving signals and related events. Upload waveforms to the PC and use cursors for detailed measurements. Perform waveform analysis, including analyzing harmonics.

ScopeMeter Specifications and Ordering Information

Mfg#	190C Color ScopeMeter Series		190B Monochrome ScopeMeter Series			Industrial ScopeMeter	
	199C	196C	199	196	192B	124	123
Bandwidth	200 MHz	100 MHz	200 MHz	100 MHz	60 MHz	40 MHz	20 MHz
Max. real time sample rate	2.5 GS/s	1 GS/s	2.5 GS/s	1 GS/s	500 MS/s	25 MS/s	
Display	144 mm Full Color LCD		144 mm Monochrome LCD			102 mm Monochrome LCD	
Digital Persistence	Yes, gives analog oscilloscope like waveform decay (user selectable)		—			—	
Max. record length	1200 points per input channel					512 min/Max	
... in Scope mode:	27,500 points per input (5 ms/div...2 min/div.)					—	
... in ScopeRecord mode:	2 plus external / DMM input, all isolated from each other and from ground					2	
Number of inputs	2 mV/div. to 100 V/div.					5 mV/div. to 100 V/div.	
Input sensitivity	Up to 3 ns using Pulse Width triggering; 50 ns peak detect at 5 ms/div. to 1 min/div.					40 ns	
Glitch capture	5 ns/div. to 2 min/div.					10 ns/div.	20 ns/div. to 1 min/div.
Timebase range in Scope mode	10 ns/div. to 2 min/div.					10 ns/div.	20 ns/div. to 1 min/div.
Trigger types	Connect-and-View®, Free Run, Single Shot, Edge, Delay, Video Frame, Video line, Selectable pulse width and External					Connect-and-View®, Free Run, Single Shot, Edge, Video	
Scope Measurements	7 cursors measurements, 30 automatic measurements					Cursors +26 automatic measurements	28 Automatic measurements
Waveform Mathematics	A + B, A – B, A x B, A versus B (X-Y-mode, giving Lissajous diagrams)					—	
Scope-Record Trigger modes	Start on Trigger, Stop on Trigger					—	
Capture last 100 screens	Automatic, with Replay capability					—	
Dual input TrendPlot	Yes, with Cursors and Zoom					Yes	
Memory	15 Screens with set-up;					20	10
True RMS multimeter	5000 counts, Volts, Amps, Ohms, Continuity, Diode, Temp					—	
Safety certified	(EN61010-1) 1000 V CAT II / 600 V CAT III (instrument and included accessories)					(EN61010-1) 600 V CAT III	
Battery (installed)	4 hr Ni-MH					7 hr NiMH	5 hr NiCad
Size	25.6 x 16.9 x 6.4 cm (10.1 x 6.7 x 2.5 inch)					23.2 x 11.5 x 5.0 cm (9.2 x 4.5 x 2 inch)	
Weight	2 kg (4.4 lbs)					1.2 kg (2.64 lbs)	
Warranty	3 years, parts and labor					—	
Order #	MP199C	MP196C	MP199E	MP196E	MP192E	MP124E	MP123E
Price							

Order with FlukeView® Software, Cables and Hard Carrying Case

Order #	MP199CS	MP196CS	MP199SE	MP196SE	MP192SE	MP124SE	MP123SE
Price							

Recommended Optional Accessories

Order #	Mfg #	Description	Price
MPC125	C125	Soft Carrying Case for 120 Series	
MPC120	C120	Hard Carrying Case for 120 Series	
MPC190	C190	Hard Carrying Case for 190 Series	
MPC195	C195	Soft Carrying Case for 190 Series	
MPSCC190E	SCC190	Software, Hard Carrying Case and Cables for 190 Series	
MPSCC120E	SCC120	Software, Hard Carrying Case and Cables for 120 Series	
MPSW90W/034EFG	SW90W/034EFG	FlukeView Software for Fluke 190 or 123 Series	
MPPV350	PV350	Pressure Vacuum Module	
MP80i-110s	80i-110s	AC/DC Current Clamp	
MPI-200S	i200S	AC Current Clamp	
MPI-3000s	i3000s	AC Current Clamp	
MP80TK	80TK	Thermocouple Module	
MPBC190/803	BC190/803	Line Voltage Adapter / Battery Charger	
MPCS20MA	CS20MA	Current Shunt	

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Electronic Test Instruments