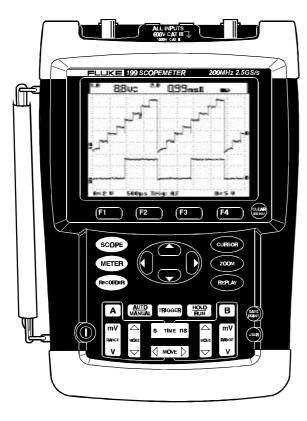


## NEW: Fluke 192, Fluke 196 and Fluke 199 60, 100 and 200 MHz with 2.5 GS/s handheld oscilloscopes

Three handheld, battery powered oscilloscopes with up to 200 MHz bandwidth, 2.5 GS/s real time sampling per input, ideal for engineers who need the full capabilities of a high-performance oscilloscope in the field.



## The new ScopeMeter 190 Series features:

- 2 channel, 60, 100 or 200 MHz digital storage Oscilloscope
- Up to 2.5 GS/s real-time sampling per input.
- 27,500 points per input record-length using ScopeRecord™-Roll. Captures complete motion profiles, and UPS-, power supply- and motor startups. Then zoom in 100x to see the tiniest details like fast intermittents.
- Advanced triggering capability.
  Connect-and-View<sup>™</sup> automatic triggering for simplicity, a full range of manual triggering modes plus external triggering (third input) for complex timing.
- Automatic capture and replay of 100 screens. Never miss an event. Always capture the last 100 screens and instantly replay them as a live animation or pictureby-picture.
- 24 automatic waveform measurements. Analyze waveform parameters using a full range of automatic functions.
- Cursors, Zoom and real time clock. For analysis of signal details, long records and TrendPlots.
- 1000V CAT II and 600V CAT III safety certified. ScopeMeter 190 series, with standard included probes meets safety standards for measurements up to 1000 Vrms.
- Independently floating isolated inputs. Up to 1000V between inputs, references and ground.
- Complete multifunctional test-tool. Includes a 5000-count true RMS Multimeter and a dual channel TrendPlot™ paperless recorder for up to 8 days of trend and intermittent fault analysis
- Four-hour rechargeable NiMH battery pack.
- Rugged, shockproof case with integrated holster. Dust and drip proof.
- Save up to 2 recordings for later analysis and recall. Each memory location can contain 100 captured dual input scope screens, or a dual input 27,500-point ScopeRecord or a dual input TrendPlot.
- Save up to 10 screens and setups.
- Print screens directly by using the optional adapter/cable or download data to a PC for later analysis and documentation with FlukeView® software.
- Bright, high contrast backlit LCD gives a clear picture in all light conditions.

ScopeMeter 190 Specifications	Fluke 199	Fluke 196	Fluke 192	
Bandwidth	200 MHz	100 MHz	60 MHz	
Maximum real time sample rate	2.5 GS/s	1 GS/s	500 MS/s	
Number of inputs	2 plus external/DMM input isolated from each other and ground.			
Number of digitizers	2			
Timebase range	5 ns/div to 2 min/div 10 ns/div to 2 min/div			
Input sensitivity	5 mV to 100 V/div			
Input impedance	1 M ± 1% // 15 pF ± 2 pF			
Acquisition modes	Normal, single shot, ScopeRecord™,roll, glitch capture			
Trigger types	Automatic Connect-and-View ®, Free Run, Single Shot, Edge, Delay, Video,			
	Video line	Video line, Selectable pulse width and External		
Glitch capture	50 nsec (5 sec/div to 1 min/div)			
Maximum record length	27,500 points per input ScopeRecord-roll mode (10 ms/div -2 min/div) 1,000 points per input in Scope mode			
Independently floating isolated inputs	Up to 1000 V between inputs, references and ground			
Automatic Scope Measurements	VDC, VAC RMS, VAC+DC, Vpeak max, Vpeak min, Vpeak to peak,			
frequency (Hz), positive pulse width, negative pulse width, positive pulse width, positive pulse width, positive pulse width, negative pulse width, positive pulse width, negative pulse width, positive pulse width, negative width, nega				
	cycle, negative duty cycle, Amp AC, Amp DC, Amp AC+DC, Power factor,			
	Watts, VA, VA reactive, Phase, Temperature C, Temperature F, dBV, dBm			
	into 50 and 600 .			
Cursor measurements	Value at cursor, difference between cursors, time of day, time from start, time			
	difference.			
Size	256 x 169 x 64mm (10.1 x 6.6 x 2.5 inches)			
Weight	1.95 kg (4.3 lbs)			
Safety certified (EN61010-1)	1,000 V CAT II/600 V CAT III with standard probes.			
Autoranging Multimeter	5,000 counts True RMS			
Warranty	3 years			

## **Optional Accessories**

- SCC190 Kit containing FlukeView software for Windows, PM9080/001 interface adapter/cable and C190 hard case.
- C190 Hard carrying case for ScopeMeter 190 series
- C195 Soft carrying case for ScopeMeter 190 series
- PM9080/001 Optically isolated RS 232 Adapter/cable. Connect ScopeMeter to a PC for Documentation and analysis with Fluke View software.
- PAC91 Serial to parallel printer adapter cable. Connect ScopeMeter to a printer for direct print-out.
- SW90W FlukeView software for Windows. Transfer screens, waveform data and setups to a PC for documentation and analysis.
- VP190-R 10:1 Voltage probe (red).
- VP190-G 10:1 Voltage probe (gray).
- AS190-R Industrial probe accessory set for red VP190 probe. Set includes 2 industrial alligators, 2 ground leads and 2 mm test probes.
- AS190-G Industrial probe accessory set for gray VP190 probe. Set includes 2 industrial alligators, 2 ground leads and 2 mm test probes.
- RS190 Probe replacement set. Set contains 5 ground springs for SMD probing, 3 hook clips, 3 ground leads with hook clip and a 4 mm probe tip adapter.
- CS20MA 4-20mA Current shunt

## **Ordering Information**

- FLK-192 Fluke 192 ScopeMeter 60 MHz-500MS/s
- FLK-192/S Fluke 192 ScopeMeter 60 MHz-500MS/s with SCC 190 Kit
- FLK-196 Fluke 196 ScopeMeter 100 MHz-1GS/s
- FLK-196/S Fluke 196 ScopeMeter 100 MHz-1GS/s with SCC 190 Kit
- FLK-199 Fluke 199 ScopeMeter 200 MHz-2.5GS/s
- FLK-199/S Fluke 199 ScopeMeter 200 MHz-2.5GS/s with SCC 190 Kit