

## Fluke Handheld Oscilloscopes



The ScopeMeter 190 Series of high performance oscilloscopes have bandwidth of 60, 100, and 200 MHz and sample rates up to 2.5 GS/s. The high resolution color display has a fast update rate and digital persistence mode – making the analysis of complex and dynamic signals that much easier.

Choose the 190 Series for tough troubleshooting problems, like intermittent failures, impulses and signal fluctuations in high speed or sensitive electronic or electromechanical systems. They include automatic measurements, cursors, FFT analysis, paperless recording functions and a DMM input.

For industrial electronic or electromechanical applications, the 120 Series Industrial ScopeMeters offer bandwidth to 40MHz, a dual DMM, paperless recording and WiFi connectivity.

The 125 offers additional capabilities for testing industrial machinery:

- Power & harmonic measurements for single phase and balanced 3-phase systems.
- RPM and Hz reading for motors & engines.
- Vac PWM for motor drive outputs.
- 0.01 ohm resolution for motor & transformer windings.
- a Bus Health function for troubleshooting industrial data networks.

For fast measurement answers and quick display of waveforms all ScopeMeters include Connect-and-View triggering. This feature recognizes signal patterns and automatically sets the oscilloscope for a stable reliable display of even the most complex waveforms. Move from test point to test point and the ScopeMeter will continuously lock onto just about any waveform.

### ScopeMeter 190 Series II

### Industrial ScopeMeters

Model	190-202	190-102	190-062	Fluke 123B	Fluke 124B	Fluke 125B
Bandwidth	200 MHz	100 MHz	60 MHz	20 MHz	40 MHz	40 MHz
Max. real time sample rate	2.5 GS/s	1 GS/s	0.5 GS/s	25 MS/s	25 MS/s	25 MS/s
Display	15.3 cm Full Color LCD			10.2 cm Monochrome LCD		
Persistence	Digital Persistence giving analog oscilloscope-like waveform decay			---		
Max. record length	10,000 points per input (Scope mode) 30,000 points per input (ScopeRecord mode)			512 min/max pairs per input		
Number of inputs	2 plus external/DMM input			2		
Number of digitizers	2			2		
Independently floating isolated inputs	Up to 1000 V between inputs, references and ground			600 V RMS max input or any terminal to ground		
Input sensitivity	2 mV/div. ... 100 V/div.			5 mV/div. ... 500V/Div		
Glitch capture	8 ns			40 ns		
Waveform zoom	100x			---		
Timebase range in Scope mode	2 ns/div. to 2 min/div.			20 ns/div. to 1 min/div.	10 ns/div. to 1 min/div.	
Trigger types	Connect-and-View®, Free Run, Single Shot, Edge, Delay, Dual Slope, Video, Video line, Selectable pulse width, N-cycle and External			Connect-and-View®, Free Run, Single Shot, Edge, Video, External		
Scope Measurements	7 cursors , 30 automatic measurements			26 automatic measurements		
Power Measurements	---			--- W, VA, VAR, PF, Hz, DPF		
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	Yes	
Memory for screens	30 screens and set-ups			10	20	
Memory for recordings	10			1		
External Memory	Isolated USB host port for data storage to USB memory			---		
True RMS multimeter	5000 counts, Volts, Amps, Ohms, Continuity, Diode, Temp			---		
Safety certified	1000 V CAT II / 600 V CAT III			600 V CAT IV		
Battery power	4 hr Li-Ion battery included			7 hr NiMH		
Line power	Adapter/battery charger included			---		
Size (cm)/Weight	27.0 x 19.0 x 7.0 / 2.2 kg			23.2 x 11.5 x 5.0 / 1.2 kg		
Temperature	0-50°C operating (0-40°C with battery)			0-50°C operating (0-40°C w/battery)		
PC and Printer interface	Isolated USB (cable included)			Using optional Optically Isolated adapter/cable		
Warranty	3 years (1 year on accessories)			---		

Add /S to model number to include Flukeview software, isolated USB cable & hard carrying case