

# FLUKE®



The **Fluke 190-062/AM/S** model is a 60MHz bandwidth model that provides real-time sampling rates up to 625MS/s and a 400ps resolution to capture noise and other disturbances.

## Applications

- **Automation:** PLC's, sensors, transducers, motion controllers, rotary encoders, scanners, readers, printers
  - **Medical Imaging:** XRay, MRI, ultrasound imaging equipment
- **Avionics:** Flight line navigation systems, communication systems, radars, on board aircraft control systems
- **A/V and Security Systems:** Retail security devices, surveillance and monitoring equipment, RFID

## Fluke 190 Series II ScopeMeters

The new 2-channel Fluke 190 series of portable oscilloscopes are designed for the industrial plant maintenance professionals servicing, installing or maintaining heavy duty electrical equipment, electro-mechanical machinery and plant automation control systems. The 190 series II ScopeMeters are the first portable oscilloscopes with a 1000 V CAT III / 600 V CAT IV safety rating.

Fluke ScopeMeter test tools are hand held, battery operated portable instruments with a sealed, dust and drip proof case that is IP 51 rated, designed to be used in harsh environments.

The new Fluke 190 series II now includes new features for troubleshooting today's industrial power electronic systems and enhancements that will improve usability and overall satisfaction.

## New Features and Functions for Industrial Equipment Maintenance Applications

- IEC 61010 1000V CAT III / 600V CAT IV Safety rating
- 2 fully isolated floating input channels with up to 625 MS/s real time sampling rate
  - 8ns Glitch detect

- 10,000 sample deep memory per channel for displaying high resolution waveform details
- 2 input channels provide, 2 meter measurements, 2 TrendPlot traces, 2 ScopeRecord traces, capturing or logging 2 inputs over time
  - Live Zoom with full resolution

### Customer Driven Enhancements

- Hi-capacity Li-ion battery with up to seven hours of operation
  - Battery access door to easily swap out batteries for extended operation
- Two electrically isolated USB ports. Mini USB-A for PC connectivity and a USB memory device port
  - Security slot to lock down instrument using standard Kensington PC lock
    - Screen insert for standard camera mounting accessories

### Plus all the Key Features and Benefits of the existing ScopeMeter 190 Series

- Up to 60 MHz bandwidth, 625 MS/s real time sample rate up to 400 pico seconds resolution
  - Built-in multimeter
  - Connect and View to easily trigger on and display even complex waveforms
- TrendPlot and ScopeRecord to capture or plot waveforms and measurements over extended time spans
  - Reply Last 100 Screen, to go back in time to see waveform anomalies
- Environmentally tested to meet IP51 dusty and drip proof rating and withstand 3G vibration or 30g shock

### Other Fluke 190 Series II models:

- [Fluke 190-204/AM](#) - This is the 4-Channel model
- [Fluke 190-204/AM/S](#) - This model includes the Fluke C290 hard case and full version of FlukeView for ScopeMeters software
  - [Fluke 190-104/AM](#) - This is the 4-Channel 100MHz series II model
- [Fluke 190-104/AM/S](#) - This 100MHz model includes the Fluke C290 hard case and full version of FlukeView for ScopeMeters software

### What's Included:

- Fluke BC190 Power adapter
- Fluke BP290 Li-ion battery pack
  - VPS410-R probe red
  - VPS410-B probe blue
  - USB cable A - B (mini)
    - Hanging strap
- Handstrap affixed to instrument (user selectable for left or right handed use)
  - CD user manual with FlukeView ScopeMeter software demo version
    - Statement of calibration practice
    - Fluke C290 hard shell carrying case
- Fluke SW90W, FlukeView for ScopeMeter for Windows with registration key code

Bandwidth

60MHz

Real-time sample rate

625MS/s

Inputs

2

Independently floating isolated inputs  
Up to 1000V between inputs, references and ground  
Timebase range  
5ns - 2 min/div  
Input sensitivity  
2mV - 100V  
Trigger types  
connect-and-View, Free Run, Single Shot, Edge, Delay, Video, Selectable pulse width and External  
Dual slope trigger and Event trigger (n-cycle)  
Glitch capture  
8ns  
Scope measurements  
Cursor: 7  
Automatic: 30  
Maximum record length  
ScopeRecord mode: 30,000 pts per input  
Scope mode: 10,000 pts per input  
Memory  
Screens + Setups: 15  
Reply + Setups: 2  
Display  
153mm full color LCD with fast update rate  
Persistence  
Digital persistence giving analog oscilloscope-like waveform decay  
Waveform Compare  
Waveform reference with automatic Pass/Fail testing  
Operating Temperature  
0°C to 40°C including batteries  
0°C to 40°C excluding batteries  
Storage Temperature  
-20°C to +60°C  
Operating Altitude  
Up to 2,000m (6666ft) for CAT IV 600V, CAT III 1000V; up to 3,000m (10,000ft) for CAT III 600V,  
CAT II 1000V  
Electrical Safety  
1,000V CAT III/600V CAT IV (EN61010-1)  
Size  
270 x 190 x 70 mm  
Weight  
2.1kg  
Warranty  
3 years on main instrument, 1-year on accessories  
Battery Life  
Li-ion: Up to 7 hrs