

# Fluke 123 Industrial ScopeMeter Specifications

## Dual Input Oscilloscope

Vertical	Bandwidth: 20 MHz at inputs With STL120 1:1 leads: 12.5 MHz With PM 8918 10:1 probes(optional): 20 MHz Coupling: AC, DC Sensitivity: 5 mV/div to 500 V/div Vertical resolution: 8 bit Accuracy: $\pm$ (2% of reading + 0.05 x range/div)
Horizontal	Range: 20 ns/div to 60 s/div Acquisition modes: Normal, Single, Roll, Envelope, Smooth Max. sample rate: 1.25 GS/s for repetitive signals 25 MS/s for single shot Record length: 512 samples per channel Accuracy: $\pm$ (0.1% of reading + 0.04 x time/div) Glitch capture: 40 ns or longer
Trigger	Source: A or B. External via optional ITP120 Modes: Auto, Triggered, Single NTSC, PAL, PAL+, SECAM Pre-trigger: Up to 10 divisions of pre-trigger view
Measurements	VDC, VAC, VAC+DC, Vpeak, Vpeak-peak, Frequency, Duty Cycle, Pulse Width and Phase. Measurements can be scaled to Amps
Memory	2 screens, 10 user setups

## Dual Input 5000 count Autoranging Meter

DC Voltage VDC	Ranges: 500 mV, 5V, 50V, 500V, 1250V Accuracy: $\pm$ (0.5% + 5 counts)
True RMS Voltage VAC and VAC+DC	Ranges: 500 mV, 5V, 50V, 500V, 1250V Accuracy: $\pm$ (1% + 10 counts)
Additional Measurements and Functions	Ohms, Continuity, Diode Test, Amps, °C or °F, Capacitance, dBV, dBm, Crest Factor, Touch Hold and ZeroSet. (Amps, °C or °F with optional probes) Graphs meter readings of the MIN and MAX values from 120 seconds to 16 days.
TrendPlot	Automatic vertical scaling and time compression. Displays the actual and MIN, MAX or AVG reading.

## Optically Isolated RS-232 Interface

To printer	supports HP LaserJet®, DeskJet®, Epson FX/LQ and Postscript
To PC	dump and load settings and data, compatible with FlukeView® Software SW90W/012E for Windows
Warranty	3 years parts and labor

## General Specifications

Display	Cold cathode fluorescent backlit LCD. Contrast and brightness user adjustable. Wide viewing angle. Size: 72x72 mm (2.8x2.8 inch)
Power	Line voltage adapter/battery charger included: Installed battery: Rechargeable NiCd pack Operating time: Up to 5 hours Charging time: 4 hours
Environmental	Temperature: 0°C to 50°C Environmental MIL-T-28800E, Type III, Class 3, Style B: Electro-Magnetic Compatibility Emission: EN50081-1(1992): EN55022 and EN60555-2 Immunity: EN50082-2(1992): IEC1000-4-2, -3, -5 Enclosure protection: IP51, IEC529 (dust, drip proof)
Mechanical Data	Size: 50x115x232 mm (2x4.5x9.1 inches) Weight: 1.2 kg (2.5 lb.)
Safety	Designed for measurements on 600V Overvoltage Category III Installations, Pollution Degree 2, per: ANSI/ISA S82.01-1994 EN61010.1 (1993) (IEC1010-1) CAN/CSA-C22.2 No. 1010.1-92 UL3111-1 Surge protection: 6 kV on input A and B Floating measurements: 600 Vrms from any terminal to ground

