

Fluke 39 Specifications

Measurement Accuracy	
Voltage	Range and Resolution: 5.0V to 600V rms (AC+DC); $\pm 5.0\text{V}$ to $\pm 933\text{V}$ peak Accuracy: rms: $\pm(0.5\% + 2 \text{ digits})$; Peak or DC: $\pm(2\% + 3 \text{ digits})$ (Add 2 digits if $< 15\text{V}$ rms)
Current (1mV/A) Isolated input	Range and Resolution: 1.00A to 1000A rms (AC+DC); $\pm 1.0\text{A}$ to $\pm 2000\text{A}$ peak Accuracy: rms: $\pm(0.5\% + 3 \text{ digits})$ + probe specs; Peak or DC: $\pm(2\% + 4 \text{ digits})$ + probe specs
Watts/Volt-Amps (1mV/A) isolated input	Range and Resolution: 0.0W(VA) to 600kW(kVA) average; 0.0W(VA) to $\pm 2000\text{kW(kVA)}$ peak Accuracy: AC+DC: $\pm(1\% + 4 \text{ digits})$ + probe specs
Harmonics (harmonic level >5% using Smooth 20)	Volts: Fundamental to 13th $\pm(2\% + 2 \text{ digits})$; At 31st $\pm(8\% + 2 \text{ digits})$; Amps or Watts: Fundamental to 13th $\pm(3\% + 3 \text{ digits})$ + probe specs; At 31st $\pm(8\% + 3 \text{ digits})$ + probe specs
Frequency	Range & Resolution: 6.0 Hz to 99.9 Hz Accuracy: $\pm 0.3 \text{ Hz}$
Input Bandwidth	DC, 6 Hz to 2.1 kHz
Crest Factor (CF)	Range & Resolution: 1.00 to 5.00 Accuracy: $\pm 4\%$
Power Factor (PF)	Range & Resolution: 0.00 to 1.00 Accuracy: ± 0.02
Displacement Power Factor (DPF)	Range & Resolution: 0.00 to 1.00 Accuracy: ± 0.04 to ± 0.03 (0.30 to 0.89) ± 0.02 (0.90 to 1.00)
Phase	Range & Resolution: -179° to 180° Accuracy (Fundamental): $\pm 2^\circ$ + probe specs
K-Factor (KF)	Range & Resolution: 1.0 to 30.00 Accuracy: $\pm 10\%$
% THD-F	Range & Resolution: 0.00% to 799.9% Accuracy: $\pm(0.03 \text{ Reading} + 2.0\%)$
% THD-R	Range & Resolution: 0.0% to 99.9% Accuracy: $\pm(0.03 \text{ Reading} + 2.0\%)$

General Specifications

Minimum Input Levels	5V rms or 1A rms
Battery Life	4 alkaline "C" cells ANSI/NEDA-14A, IEC-LR14 (supplied) 48 hours typical (continuous)
Shock & Vibration	Per MIL-T-28800, Class 3
Case	Drip-Proof and Dust-Proof per IEC, IP 52
Size	234 mm L x 100 mm W x 64 mm D (9.2" L x 3.9" W x 2.5" D)
Weight	0.9 kg (2.0 lb.)