

Fluke 39 Power Meter and 41B Power Harmonics Analyzer

[Product Home](#) | [Features](#) | [Specifications](#) |
[Models, Options & Accessories](#) | [Manuals](#)



The Fluke 39 Power Meter and Fluke 41B Harmonics Analyzer combine the ease of use of a digital multimeter, the visual feedback of an oscilloscope and the power of a harmonics analyzer in a single instrument. If you're testing power on three-phase systems or trouble-shooting harmonics on non-linear loads, no test tool makes it easier.

The Model 41B is ideal for further analyzing data and optimizing system performance. Use the Fluke 41B's FlukeView[®] software (included) to download acquired data to a printer or an MS-DOS[®] or Windows[®] compatible computer for analysis and presentation.

© 1995 - 2000 Fluke Corporation

[Privacy Statement](#)

Fluke 39 and 41B Power Meters Specifications

[Product Home](#) | [Features](#) | [Specifications](#) | [Models, Options & Accessories](#) | [Manuals](#)

- [Measurement Accuracy](#)
- [General Specifications](#)

Measurement Accuracy

| | |
|--|---|
| Voltage | Range and Resolution: 5.0V to 600V rms (AC+DC); ±5.0V to ±933V peak Accuracy: rms: ±(0.5% + 2 digits); Peak or DC: ±(2% + 3 digits) (Add 2 digits if < 15V rms) |
| Current (1mV/A) Isolated input | Range and Resolution: 1.00A to 1000A rms (AC+DC); ±1.0A to ±2000A peak Accuracy: rms: ±(0.5% + 3 digits)+probe specs; Peak or DC: ±(2% + 4 digits) + probe specs |
| Watts/Volt-Amps (1mV/A) isolated input | Range and Resolution: 0.0W(VA) to 600kW(kVA) average; 0.0W(VA) to ±2000kW(kVA) peak Accuracy: AC+DC: ±(1% + 4 digits) + probe specs |
| Harmonics (harmonic level >5% using Smooth 20) | Volts: Fundamental to 13th ±(2%+2 digits); At 31st ±(8%+2 digits); Amps or Watts: Fundamental to 13th ±(3% + 3 digits) + probe specs; At 31st ±(8% + 3 digits) + probe specs |
| Frequency | Range & Resolution: 6.0 Hz to 99.9 Hz Accuracy: ±0.3 Hz |
| Input Bandwidth | DC, 6 Hz to 2.1 kHz |
| Crest Factor (CF) | Range & Resolution: 1.00 to 5.00 Accuracy :±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): ±2° + 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.) |
| Warranty | One Year Warranty |

© 1995 - 2000 Fluke Corporation

[Privacy Statement](#)

Fluke 39 and 41B Power Meters Models, Options & Accessories

[Product Home](#) | [Features](#) | [Specifications](#) | [Models, Options & Accessories](#) | [Manuals](#)

| Model Name | Product Description |
|-------------|--------------------------|
| Fluke 41B * | Power Harmonics Analyzer |
| Fluke 39 * | Power Meter |

*Included Accessories:

Isolated RS-232 Cable, FlukeView® Software, Software Manual (included w/41B only)
80i-500s AC Current Probe
TL24 Test Leads
AC20 Test Clips
TP20 Test Probes, Operator's manual

Available Accessories and Options

| Model Name | Accessory or Option Description |
|---------------------------|--|
| 609096 | Understanding and Managing Harmonics Video |
| 800919 | Power Quality Troubleshooting Video (NTSC) |
| 800927 | Power Quality Troubleshooting Video (PAL) |
| 80i-1000s | 1000A AC Current Probe |
| 80i-110s | 100A AC/DC Current Probe |
| AC70A | Alligator Clips |
| AC85A | Large Jaw Alligator Clips |
| i2000flex | Flexible 2000A AC Current Probe |
| i200S | AC Current Clamp |
| i3000s | 3000A AC Current Probe |
| PAC91 | Printer Adapter Cable |

| | |
|-----------------------|---------------------------------|
| TL23F | Electrical Test Lead Set |
| TL23R | Electrical Test Lead Set |
| TL71 | Premium DMM Test Lead Assembly |
| TL74 | 4 mm Diameter Test Leads |
| TL80 | Basic Electronic Test Lead Set |
| TL81 | Deluxe Electronic Test Lead Set |
| TP1 | Slim Reach™ Test Probe |
| TP2 | Slim Reach™ Test Probe |
| TP4 | Slim Reach™ Test Probe |

© 1995 - 2000 Fluke Corporation

[Privacy Statement](#)