

**Aumictech**

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Data Sheet

August 14, 2026

FLUKE

Fluke 80i-1000s AC Current Probe for Oscilloscopes

The Fluke 80I-1000S is an AC current probe designed to extend the current measuring capabilities of oscilloscopes. It is capable of measuring AC current up to 1000 A peak. The probe is compatible with most oscilloscopes, multimeters, or other voltage measuring instruments that have a BNC input.



MODEL

Fluke 80I-1000S

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

80I-1000S

LISTING

<https://aumictechlabs.com/products/80i-1000s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 80i-1000s is an AC current probe that extends the current measurement capabilities of oscilloscopes and other voltage-measuring instruments through non-intrusive clamp-on measurement. It measures AC current from 100 mA to 1000 A rms continuously, with instantaneous peak capability to 2000 A, making it suitable for industrial and power environments where accurate distorted waveforms and harmonics characterization is required. Technical Specifications Current Measurement Continuous range: 100 mA to 1000 A rms Instantaneous peak: 2000 A Switch-selectable ranges: 10 A, 100 A, 1000 A Frequency Response Operating range: 5 Hz to 100 kHz Built-in 100 kHz low-pass output filter eliminates wideband noise Output Signal Maximum output: 2 V peak Three switch-selectable sensitivities: 1 mV/A (up to 1000 A

peak), 10 mV/A (up to 200 A peak), 100 mV/A (up to 20 A peak) Accuracy 100 mA to 10 A: 3% of reading $\pm$ 100 mA 0.5 A to 100 A: 2% of reading 5 A to 1000 A: 2% of reading Specifications valid 45 Hz to 1 kHz at 23 °C $\pm$ 5 °C, 20–75% relative humidity, centered conductor, no DC component, <40 A/m external magnetic field Mechanical Maximum conductor diameter: 54 mm (2.13 inches) Dimensions: 111 mm $\times$ 216 mm $\times$ 45 mm Weight: 550 g (1.21 lbs) IP 40 enclosure protection; 1 meter drop test per IEC 68-2-32; 100 G mechanical shock per IEC 68-2-27 Key Features Double or reinforced insulation throughout, Protection Class II per UL 3111, ANSI/ISA-S82.01-1994, CAN/CSA C22.2 No. 1010.1-92, IEC 1010-1, and EN 61010-1 CAT III 600 V rated: 600 V AC rms working voltage and 600 V AC rms float voltage Built-in passive filter suppresses noise and ring on rapidly rising di/dt waveforms Insulated BNC output connector with 1.6 m PVC-insulated coaxial cable Compatibility & Integration Works with any oscilloscope accepting standard BNC connectors and input impedance $\geq$ 1 M Ω in parallel with a capacitive load.

80I1000S Characteristics / Specifications

PARAMETER	VALUE
Current Range	0.1 A to 1000 A
Frequency Range	5 Hz to 100 kHz
Scaling Ranges	three current measurement scaling ranges
Maximum Conductor Size	54 mm
Safety Category	CAT III 600 V
Maximum Voltage Class	600 V
Output Type Class	voltage output scaled to current for scope/meter
Form Factor	clamp-on current probe
Intended Instruments	oscilloscopes ScopeMeters and compatible meters
Measurement Quantity	AC current
Jaw Style	clamp
Bandwidth Class	to 100 kHz
Series Family	Fluke 80i current probes
Operating Use Class	industrial power current
Connector Class	BNC or banana per cable accessory
Battery Requirement Class	none for passive/transformer style operation footnotes per sheet
Crest Factor Handling Class	per probe frequency/current derating table
Specification Ambient Class	laboratory ambient unless OEM table states otherwise
Calibration Traceability Class	per OEM calibration certificate
Connector Condition Class	clean inspected connectors required for optical specs
Documentation Source Class	OEM datasheet or instruction manual
Faceplate Confirmation	required for installed options and exact codes
Bandwidth	Class: to 100 kHz

80I1000S Specifications

PARAMETER	VALUE
Key Features	Current range 0.1 to 1000 A
Three scaling ranges	Wide bandwidth 5 Hz to 100 kHz
Large jaw for conductors to 54 mm	CAT III 600 V rated
Technical Specifications	Current Range: 0.1 A to 1000 A

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes	
Numeric rows from Fluke 80i-1000s product specification summaries and safety data sheet references. Confirm exact mV/A scaling factors and accuracy table on the probe instruction sheet revision.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.