

Current Probes for WaveBooks™

General Information & Specifications

General Overview

Clamp-on current probes are an ideal noninvasive method of measuring AC or DC currents in a circuit. There is no need to open the circuit to insert a shunt. Simply clamp onto the wire of interest and attach the other end to the WaveBook™. The voltage measured is proportional to the current in the wire. It's that simple.

IOtech offers a wide variety of current probes allowing users to connect either AC or DC amperage to their data acquisition system. In order to accommodate a wide array of applications, IOtech provides probes in a variety of current ranges. Each probe ships with all of the required adapters for direct BNC connection to IOtech's WaveBook system*.

Probe/AC/1000



AC current probe is ideal for making highly accurate measurements of industrial power quality

Electrical Specifications

Output & Current Range: 1 mV/A: 1A to 1000A AC, continuous cycle Termination Resistance: 1 Ohm Accuracy and Phase Shift**:

200A 1000A Primary Current Accuracy % of Reading 0.9% 0.55% 0.5% 1.5° 0.5° Phase Shift 0.5°

Frequency Range: 30 Hz to 10 kHz, current derating

above 5 kHz for continuous use Working Voltage: 600V AC Common Mode Voltage: 600V AC

Mechanical Specifications

Jaw Opening: 2.13 in. (54 mm) max Maximum Conductor Size: 2.09 in. (53 mm) Polycarbonate Material:

Handles: 10% fiberglass charged polycarbonate UL 94 V0

Dimensions: 206 mm W x 48 mm D x 105 mm H

(8.11" x 1.89" 4.13" x) Weight: 1.43 lbs (650 g)

Output: Double insulated 5 ft. (1.5 m) lead with safety banana plug with BNC adapter

Current Probe family

Current Probe Application Matrix			
Probe	Available Ranges	Current Range	Sensitivity
Probe/AC/1000	1	1A to 1000A	1 mV/A (1V @ 1000A)
Probe/SR661	3	100 mA to 20A peak 500 mA to 200A peak 5A to 2000A peak	100 mV/A 10 mV/A 1 mV/A



The Probe/SR661 handles the broadest range of AC currents

Electrical Specifications

Output & Current Ranges

100 mV/A: 100 mA to 20A peak 10 mV/A: 500 mA to 200A peak 1 mV/A: 5A to 2000A peak

Accuracy**

100 mA to 20A peak: 3% reading ±10 mV 500 mA to 200A peak: 2% reading 5A to 2000A peak: 2 % reading Frequency Range: 5 Hz to 50 kHz

Mechanical

Maximum Jaw Size: 2.13 in. (54 mm) Handle: Polycarbonate UL 94 VO

Dimensions: 105 mm W x 206 mm D x 48 mm H (4.13" x 8.11" x 1.89")

Output: 6.5 ft. (2m) coaxial cable with insulated BNC connector

Ordering Information

Clamp-on probe, 1000A AC with BNC connector Clamp-on probe, 2000A AC with BNC connector

Probe/AC/1000 Probe/SR661

Part No.

For complete information on

accessories and cables, visit www.iotech.com/acc

Related Products

WaveBook Series p. 17 WBK10A p. 35

- The probes also connect to IOtech's DaqBook, DaqBoard, Daq PC-Cards, LogBook, or ADC488 series data acquisition systems when configured with BNC-equipped options
- ** Reference conditions: 23°C ±3°C, 20 to 75% RH, 48 to 65 Hz, external magnetic field <40 A/m, no DC component, no external current carrying conductor, test sample centered, load impedance 1M Ohm.