

Transcat AC/DC mA Clamp-On Probe

Measure 4–20 mA without breaking the loop

- Works with Most DMMs: Measures DC, True RMS, and DC + AC; Measures Currents from 100 μ A
- Outputs 1 mV DC per mA AC or DC

Applications

- Industrial Process Control (4–20 mA)
- Electronic Circuit Design, Testing, and Repair
- Fault and Signal Location in Complex Networks
- Ground and Leakage Current Measurement
- Engine Wiring and Control Systems for Field Service Motor Pool
- Avionics Systems Maintenance and Repair

The Right Instrument

Whether you are designing electronic circuits or measuring 4–20 mA process loops, there is little room for error. Accurate, non-contact low current measurements are nearly impossible without the right instrument. That is exactly what the 22747E provides! Low DC and AC current measurements that can be read directly on your digital multimeter or oscilloscope.

Each Unit Includes:

9V battery and operation manual.



▲ 22747E

Specifications

Current Range:	0 to ± 4.5 A DC; 0 to 3A RMS
Output (V out):	1 mV/mA
Resolution:	DC: 50 μ A typical; AC: 100 μ A typical
Accuracy:	DC: 1% of reading ± 200 μ A; AC: 2% reading ± 200 μ A
Output Noise:	<100 μ V, DC to 5 kHz
Output Impedance:	200 Ω
Influence of Adjacent Conductor:	<50 μ A/A
Probe Inductance:	<1 μ H
Frequency Response:	DC to 2 kHz (@ -3 dB sine)
General	
Zero Adjust:	± 25 mA
Battery:	One 9V alkaline. NEDA 1604 or IEC 6LF22
Dimensions (Probe):	4.4 x 0.6 x 1.0" (111 x 15 x 25 mm)
Dimensions (Module):	4.9 x 2.5 x 1.1" (124 x 64 x 28 mm)
Working Voltage:	IEC1010-2-31, CAT III
Weight:	9 oz (250g)
Cable Length:	5 ft (1.5m)

Ordering Information

Order #	Description	Price
MP22747E	mA Clamp-On Probe	
Transcat Accredited Calibration with Data		CALL
Transcat Accredited Calibration without Data		CALL

Bell Technologies Clamp-On Milliammeter

Accurately measures very low current, functions as stand-alone meter or scope/recorder accessory

The 5915E is a dedicated mA-sensing device, measures DC or true RMS AC current without breaking the circuit or disturbing the insulation. Especially suitable for troubleshooting 4–20 mA control loops, measuring ground currents, isolating faults in electronic circuits, verifying data streams — just about any low-current application.

- Measures to 2000 mA AC or DC in Two Ranges with Accuracy to $\pm 1\%$ of Rdg. and Resolution to 0.1 mA; Frequency Range DC to 100 kHz
- 3½-Digit Display Lets You Use it as a Stand-Alone Meter, or Hook it to a Recorder or Scope Through its Analog Output
- Simple to Operate—Just Clamp Retractable Probe Opening Around Conductor and Read the Current
- Built to IEC1010 Safety Standards. CE Compliant Version Available

Each Unit Includes: Two 9V alkaline batteries, AC adapter (32856), hard carrying case, and instructions.

Ordering Information

Order #	Mfg#	Description	Price
MP5915E	MA-2000	Clamp-On Milliammeter	
Transcat Accredited Calibration with Data			CALL
Transcat Accredited Calibration without Data			CALL

Specifications

AC/DC Measuring Ranges:	0 to 200 mA, low range; 0 to 2000 mA, high range
AC Frequency Ranges:	DC to 200 Hz, AC low range; 200 Hz to 100 kHz, AC high range
Resolution:	0.1 mA, low range; 1 mA, high range
Accuracy:	1% of rdg. ± 3 counts, DC current; 2% of rdg ± 3 counts, AC current to 200 Hz
Analog Output:	1 mV/mA, BNC connector
Power Supply:	Two 9V alkaline batteries, NEDA 1604A
Aperture Opening:	0.21" (5.3 mm)
Dimensions	
Meter:	5.3 x 5.2 x 1.5" HWD (13.5 x 13.2 x 3.8 cm)
Probe:	6.25" (15.9 cm) length, 1.2" (3 cm) dia.



▲ MA-2000 CE