EM ANTENNAS

DATASHEET

EM-6980 and EM-6981 | Probes, Clamp-On

Description

Current probes enable you to measure conducted current without a direct connection to the circuit under test by clamping around the conductor, current-carrying wire, or structural member being tested.

The probe consists of two semicircles that clamp around conductors by means of a clip. Utilizing a core of ferrous materials separated by an air gap to prevent erroneous measurements due to saturation, models EM-6980 and EM-6981 are capable of measuring signals and noise superimposed on power currents up to 300 A from DC to 400 Hz. Intermodulation effects on the current probe outputs are also negligible.

The EM-6980 and EM-6981 can be connected to a conventional oscilloscope, voltmeter, or interference analyzer by means of a coaxial cable, such as EM Antennas' EM-1106 or EM-1305 (not included with probe).

Each current probe is calibrated for transfer conductance in a circuit having a 50 ohm resistive load. A serialized transfer impedance chart is supplied with each probe.

Specifications

Electrical

	EM-6980	EM-6981
Frequency Range:	20 Hz-50 kHz	20 Hz-50 kHz
Impedance:	50 ohms Nominal	50 ohms Nominal
Output Connector:	BNC	TNC
Conductor Opening:	Up to and including 25 mm (1 inch)	Up to and including 25 mm (1 inch)
Probe Factor:	+64 dB at 20 Hz to +7 dB at 10 kHz to 0 dB at 50 kHz	+23 dB at 10 kHz -14 dB at 10 MHz to -12 dB at 110 MHz

Mechanical

	EM-6980	EM-6981
Outside Diameter:	**73 mm (2.875")**	73 mm (2.875")
Thickness:	**32 mm (1.25")**	32 mm (1.25")
Weight:	**454 g (1 lb)**	454 g (1 lb)

Specifications subject to change without notice, unless otherwise specified. Product is manufactured in Johnstown, NY, U.S.A.

MADE IN USA

231 Enterprise Rd., Johnsontown NY 12095 518.762.2600 www.em-antennas.com