

AC Current Probe Model SR182



Model SR182

Description

The AC Current Probe Model SR182 is designed specifically for use with the AEMC® Ground Resistance Tester Model 6471 and 6472. When a single probe is used in conjunction with the traditional Fall-of-Potential method, selective grounds can be measured by moving the probe from point to point around the grounding system. When two SR182 probes are used in conjunction with the Model 6471 and 6472, grounding electrodes can be measured without the necessity of installing auxiliary rods and conducting a full potential measurement. This is also referred to as the stakeless method.

Specifications when used with Ground Resistance Testers Model 6471 & 6472

Measurement Range	0.00 to 9.99mA	10.0 to 99.9mA	100 to 999mA	1.00 to 9.99A	10 to 40A
Resolution	0.01mA	0.1mA	1mA	0.01A	0.1A

Frequency Range	16 to 49Hz	50 to 99Hz	100 to 400Hz
Accuracy	± (10% + 2cts) > 20%	± (5% + 2cts) ± (10% + 2cts)	± (3% + 2cts) ± (5% + 2cts)

Operating Temperature: -14° to 122°F (-10° to 50°C)

Storage Temperature: -4° to 158°F (-20° to 70°C)

Influence of Temperature: < 0.15% per 10°K

Influence of Humidity: 10 to 90%: 0.1%

Jaw Opening: 2.25" (57mm) max

Maximum Conductor Size: 2.05" (52mm)

Envelope Protection: IP 40 (IEC 529)

Drop Test: 1 m (IEC 68-2-32); 100 g (IEC 68-2-27)

Vibration: 5 to 15Hz, 0.15mm (IEC 68-2-6)
15 to 25Hz, 1mm
25 to 55Hz, 0.25mm

Case: Polycarbonate Grey UL94V0

Jaws: Polycarbonate Red UL94V0

Dimensions: 4.37 x 8.50 x 1.77" (111 x 216 x 45mm)

Weight: 1.21 lbs (550g)

Output: 13 ft (4m) lead with CA connector

SAFETY SPECIFICATIONS:



Electrical: Double insulation or reinforced insulation between the primary or secondary and the outer case of the handle conforms to IEC 1010-2-032.

Common Mode Voltage: 600V CAT III, Pollution Degree 2

Dielectric Strength: 5550V, 50/60Hz between primary, secondary and the outer case of the handle

Electromagnetic Compatibility:

EN 50081-1 Class B

EN 50082-2 Electrostatic discharge
IEC 1000-4-2

Radiated field IEC 1000-4-3

Fast transients IEC 1000-4-4

Magnetic field at 50/60 Hz IEC 1000-4-8

CATALOG NO.	DESCRIPTION
2135.72	AC Current Probe Model SR182