

i6000s Flex AC Current Probe



The i6000sflex is an AC current probe utilising the Rogowski principle. It can be used to measure currents up to 6000A when used in conjunction with oscilloscopes, recorders or data loggers. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas.

Electrical Characteristics	
Current Ranges	60 A / 600 A / 6000 A AC _{RMS}
Output Sensitivity (AC coupled)	50 mV / 5mV / 0.5mV per A
Load Impedance	100 kOhm minimum
Accuracy (at +25°C)	±1% of range (45 - 65 Hz)
Linearity (10% to 100% of range)	±0.2% of reading
Noise	8mV AC _{RMS} (60 A) 2 mV AC _{RMS} (600/6000A)
Frequency Range	10 Hz to 50 kHz (- 3 dB)
Phase Error	< ±1° (45 - 65Hz), ±10° (at 20 kHz)
Position Sensitivity (with cable > 25mm from the coupling)	±2% of range
External field (with cable > 200mm from the head)	±1% of range
Power Supply	2 x AA MN 1500 LR6 alkaline 400 Hours, low battery indicator or dedicated ext power supply
Temperature Coefficient	±0.08% of reading per C
Working Voltage (see Safety Standards section)	600 V AC _{RMS} or DC

General Characteristics	
Head Cable length... (double insulated)	610mm (24") I6000s Flex-24 915mm (36") I6000s Flex-36
Head Cable Diameter	14.3 mm
Head Bend Radius	38.1 mm
Cable length (head to electronics)	2 meters
Output Connection	0.5 m cable terminated with safety BNC connector Supplied with 4mm safety plug adaptor
Operating Temperature Range	-20 to +90 °C (head) -20 to +85 °C (electronics)
Storage Temperature Range	-40 to +105 °C (head) -20 to +85 °C (electronics)
Operating Humidity	15% to 85% (non condensing)
Weight	180 g (head), 190 g (electronics)

Safety Standards	
BS EN 61010	1: 2001
BS EN 61010	2-032: 2002
BS EN 61010	031: 2002
600V _{RMS} , Category III, Pollution Degree 2	
Note	Use of the probe on uninsulated conductors is limited to 600 V AC _{RMS} or DC and frequencies below 1 kHz.
EMC Standards	BS EN 61326: 1998 +A1, A2, & A3

