

i6000sFlex 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.

Function	I6000s Flex-24	I6000s Flex-36
Use with DMMs (i3000 w/ BNC adapter)	x	x
Use with oscilloscopes and power quality	x	x
Bandwidth up to 20 kHz	x	x
Bandwidth up to 100 kHz	x	x
Battery life 200 hours	x	x
Battery life 400 hours	x	x
Permanent data logging (via external power supply)	x	x
Conductor diameter upto 170 mm (6.5 in)	x	x
Conductor diameter upto 275 mm (10.5 in)		x

General Specifications:

Phase error	$\pm 1^\circ$ (45 to 65 Hz), $\pm 10^\circ$ (at 5 kHz)
Linearity	$\pm 0.2\%$ of reading from 10% to 100% of range
Position sensitivity	$\pm 2\%$ of range, cable >25mm (1") from coupling
External field	$\pm 1\%$ with cable > 200mm (8") from head
Noise level	0.1mV rms (0.03% of range)
Operating temperature	-20°C to 85°C (-4°F to 185°F) Electronics
Storage temperature	-20°C to 85°C (-4°F to 185°F) Electronics
Gain variation	$\pm 0.08\%/^\circ\text{C}$
Common mode	voltage Voltage between the Output and Earth must not exceed 30V
Power supply	2 x AA MN1500 (1.5V) LR6 batteries
Low battery indication	Red LED
External power	Battery eliminator, via 2.1mm connector, 3V DC
Socket type	A16M500
Safety	BS EN 61010-1: 1993, 600V CAT III Pol. Deg 2 EMC EN61326: 1998
Enclosure	IP5X, Flame retardant UL94 -V0 rated
Material	Valox 357 X
Output connections	Hypotronics connector type D01EEB306FST
Weight	0.19 kg (0.4 lb)

