

LEM Current Probe Type LEM~flex RR3020

Description : The LEM~flex RR3020 is an AC current probe utilising Rogowski principle. The flexible and lightweight measuring head enables quick and easy installation in hard to reach areas. The LEM~flex RR3020 is designed for use with multimeters, recorders and data loggers.

Measuring ranges	30A/300A/3000A
Output sensitivity	100mV/10mV/1mV/A (AC coupled)
Accuracy (at 25°C)	± 1 % of range
Frequency range	10Hz to 20kHz (-1dB)
Phase error	± 1° (45 to 65 Hz), ±10° (at 20kHz)
Linearity	± 0.2% of reading from 10% to 100% of range
Position sensitivity	± 2% of range, cable >25mm (1") from coupling
External field	± 1% with cable > 200mm (8") from head
Minimum load	100kΩ for specified accuracy
Noise level	8mV rms (0.26% of range) in 30A range 2mV rms (0.07% of range) in 300A and 3000A ranges
Operating temperature	0°C to 70°C (32°F to 158°F) Electronics
Storage temperature	-20°C to + 70°C (-4°F to 158°F) Electronics
Gain variation	± 0.08%/ °C
Power supply	2 x AA MN1500 LR6 batteries or equivalent
Battery life	200 hours typical
Low battery indication	RED LED
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	4mm safety plugs
Weight	0.19 kg (0.4lb)

Measuring Head

Cable length	610mm (24 inches), double insulated
Cable diameter	14.3mm (0.562 inches)
Bend radius	38.1mm (1.5 inches) minimum
Connecting cable	2m (78.7 inches) long, double insulated
Material	TPE rubber, Polypropylene, UL94 -V0 rated
Operating temperature	-20°C to +90°C (-4°F to 194°F) Head
Storage temperature	-40°C to +105°C (-40°F to 221°F) Head
Safety	BS EN 61010-1 : 1993, 600V CAT III Pol. Deg 2
Weight	0.18kg (0.4 lb)
Dimensions	See drawing overleaf

LEM-FLEX

RR 3020

ALL DIMENSIONS IN MILLIMETERS
UNLESS OTHERWISE STATED

