

## Current Probe Model RR3030

The LEM~flex RR3030 is an AC current probe utilising the Rogowski principle. It can be used to measure currents up to 3000A 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.....	: 30 A / 300 A / 3000 A AC <sub>RMS</sub>
Output Sensitivity (AC coupled) .....	: 100 mV / 10mV / 1mV 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 <sub>RMS</sub> (30 A), 2 mV AC <sub>RMS</sub> (300/3000A)
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 external power supply
Temperature Coefficient.....	: ± 0.08% of reading per °C
Working Voltage (see Safety Standards section).....	: 600 V AC <sub>RMS</sub> or DC

### General Characteristics

Head Cable length...(double insulated) .....	: 610mm (24") RR3030 915mm (36") RR3030/36 1220mm (48") RR3030/48
Head Cable Diameter.....	: 14.3 mm
Head Bend Radius .....	: 38.1 mm
Cable length (head to electronics) .....	: 2 meters
Output Connection .....	: Safety BNC connector
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

BSEN61010-1: 1993 and Amendment A2 : July 1995

Use of the probe on **uninsulated conductors** is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1 kHz.

## EMC Standards

EN 61326 : 1998

## Dimensions

in mm

