

Current Probe Model RR3035

The LEM~flex RR3035 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 _{RMS}
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.....	: 8 mV AC _{RMS} (30 A), 2 mV AC _{RMS} (300/3000A)
Frequency Range	: 10 Hz to 50 kHz (- 3 dB)
Phase Error.....	: < ± 1° (45 – 65Hz), ± 10° (20kHz)
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 ext. power supply (3V/100mA)
Temperature Coefficient.....	: ± 0.08% of reading per °C
Working Voltage (see Safety Standards section).....	: 30 V max between output and Earth, 600V (Head)

General Characteristics

Head Cable length...(double insulated)	: 24" RR3035 36" RR3035/36 48" RR3035/48
Head Cable Diameter/Bend Radius	: 0.562 "/1.5" minimum
Cable Length (head to electronics)	: 78.7 " long, double insulated
Output Connection	: Female BNC connector, supplied with extension cable and BNC to 4mm adaptor.
Operating Temperature Range	: - 4 °F to 194 °F (head) - 4 °F to 185 °F (electronics)
Storage Temperature Range	: - 40 °F to 221 °F (head) - 4 °F to 185 °F (electronics)
Operating Humidity	: 15% to 85% (non condensing)
Weight.....	: 0.4 lb (head), 0.4 lb (electronics)

Safety Standards

IEC 1010-1

IEC 1010-2-031

IEC 1010-2-032, 600 V_{RMS}, Category III, Pollution Degree 2

Use of the probe on **uninsulated conductors** is limited to 600 V AC_{RMS} or DC and frequencies below 1 kHz.

EMC Standards

EN 61326 : 1998

Dimensions

in mm

