

# Flexible AC Current Probes

## LEM~flex RR3020/ RR3030

- Ideal for large and hard to reach conductors
- Flexible and lightweight, less than a quarter of the weight of conventional CTs
- No restrictions with regard to duty cycle or overload current
- Selectable current ranges of 30/300/3000A
- AC coupled mV output proportional to measured current
- 1% accuracy
- Low Battery indicator

### Additional Features RR3030

- Increased bandwidth up to 50kHz
- Improved signal to noise ratio for better low current capability
- Extended battery life (400hours)
- Wider operating temperature range (-20°C to 90°C)
- External power supply option

### Description

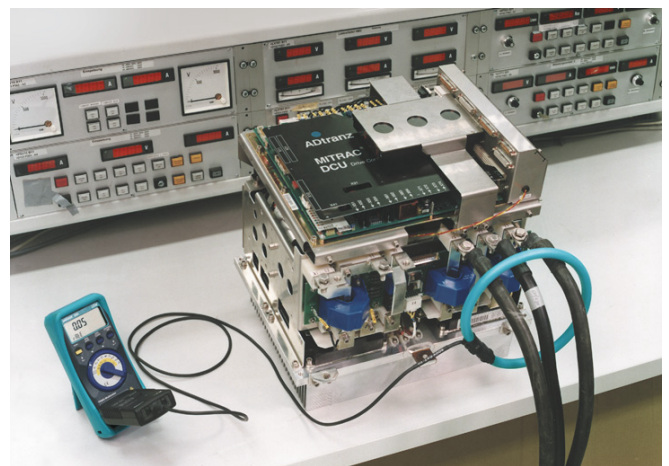
The LEM~flex III range ensures safe, accurate and non-intrusive measurements in applications that may be completely inaccessible with conventional current clamps and probes.

The probes provide a linear voltage output that is an exact replica of the input waveform for three user selectable input current ranges of 30, 300, or 3000 Amperes. The standard 60cm flexible head allows a measuring diameter of up to 18 cm. Larger measuring heads (up to 37cm) and higher current ratings are available upon request.

Two standard versions are available:

The low cost RR3020 with 4mm safety plugs suitable for direct connection to multimeters, recorders and data loggers, without any need for additional connecting cables.

The RR3030 with enhanced performance for more demanding applications and a BNC output connector for oscilloscopes, recorders and data loggers (4mm adaptor included to ensure compatibility with all types of instrumentation).



### External power supply

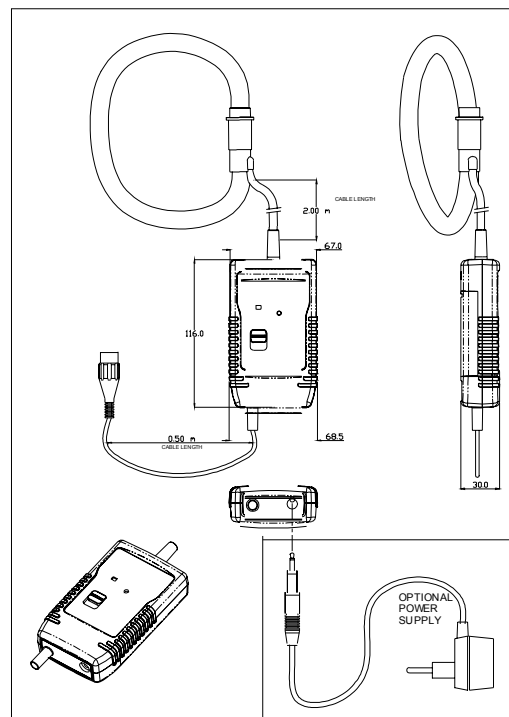
The dedicated external power supply is for long term monitoring applications and has been designed specially to meet all the latest safety standards when working on live conductors.

The range complies with IEC 1010-2-032 600 V CAT III Pollution degree 2 for **input and output circuits** and EMC standard EN 61326



## Specifications

	RR 3020	RR 3030
<b>Ranges</b>	30/300/3000 A	30/300/3000 A
<b>Output</b>	100/10/1 mV/A	100/10/1 mV/A
<b>Accuracy</b>	1% of range	1% of range
<b>Frequency Range</b>	10Hz – 20kHz	10Hz – 50kHz
<b>Zero Offset</b>	AC coupled	AC coupled
<b>Noise</b>	8mV (in 30A ) 2mV (300/3000A)	4mV
<b>Operating Temperature</b>	0 °C to +70 °C	-20 °C to +85 °C
<b>Battery life</b>	200 hrs cont.  No ext. power	400 hrs cont.  ext. power supply option
<b>Connections</b>	Safety plugs on enclosure	BNC connector and 4mm plug adaptor
<b>Phase error</b>	± 1° (45 to 65Hz) ± 10° (at 20Hz)	± 1° (45 to 65Hz) ± 10° (at 50Hz)
<b>Optional external power supply</b>	No	Yes



RR3030 dimensions

<b>Working Voltage</b>	600V Cat III input + output
<b>Dimensions - Electronics</b>	
(H x W x D):	116 x 68.5 x 30 mm
Weight:	395 gm
Measuring head Capacity:	178 mm
Head to box cable length	2m

## LEM

LEM offers a comprehensive range of electrical test products to ensure the safe and efficient operation of electrical equipment and installations. Other products from the LEM group includes systems and analysers for power quality applications and transducers for current and voltage measurement. LEM provides complete measurement solutions in current, voltage and power quality.

## Safety

The range complies with IEC 1010-2-032 600 V CAT III Pollution degree 2 for **input and output circuits** and EMC standard EN 61326

Designation	Order no.
RR3020 - flexible AC current probe	60.31.71.000.0
RR3030 - flexible AC current probe	60.30.71.000.0
Power Supply – UK and Eire	60.30.06.000.0
Power Supply - mainland Europe	60.30.06.001.0

Distributor:



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