

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 (400 hours)
- Wider operating temperature range (-20°C to 90°C)
- External power supply option

General

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.

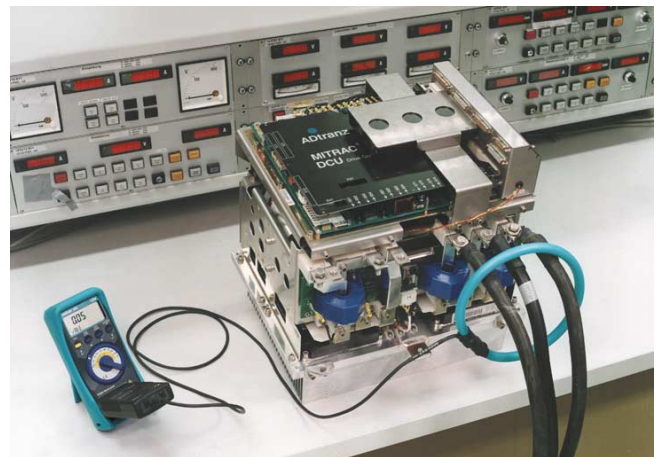
The probes provide a linear voltage output that is an exact replica of the input waveform for three user selectable input current ranges of 30, 300, or 3000 Amperes. The standard 60cm flexible head allows a measuring diameter of up to 18 cm.

Larger measuring heads 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.



General technical datas

Specifications

	RR 3020	RR 3030
Ranges	30/300/3000 A	30/300/3000 A
Output	100/10/1 mV/A	100/10/1 mV/A
Accuracy	1% of range	1% of range
Frequency Range	10Hz – 20kHz	10Hz – 50kHz
Zero Offset	AC coupled	AC coupled
Noise	8mV (in 30A) 2mV (300/3000A)	4mV
Operating Temperature	0 °C to +70 °C	-20 °C to +85 °C
Battery life	200 hrs cont.	400 hrs cont. (ext. power supply option)
Connections	Safety plugs on enclosure	BNC connector and 4mm plug adaptor
Phase error	< 1° (45 to 65Hz) < 10° (at 20kHz)	< 1° (45 to 65Hz) < 10° (at 20kHz)
Optional external power supply	No	Yes
Working Voltage	600V Cat III input + output	
Dimensions - Electronics:	116 x 68.5 x 30 mm (H x W x D)	
Weight:	395 gm	
Measuring head Capacity:	178 mm	
Head to box cable length	2m	

RR3130 - Specification as per the RR3030 with output of 1V at full scale.

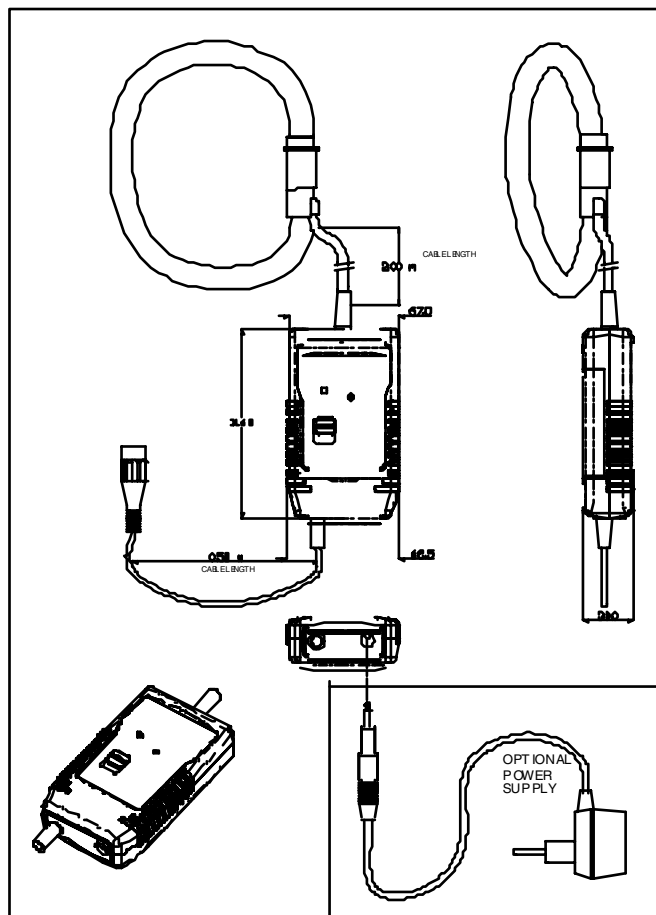
Safety

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

Scope of Delivery

Flexible AC Current Probes

RR3020	flexible AC current probe	60.31.71.000.0
RR3030	flexible AC current probe	60.30.71.000.0
RR3130	flexible AC current probe	60.30.71.004.0
UK and Eire	Power Supply	60.30.06.000.0
mainland Europe	Power Supply	60.30.06.001.0



RR3030 dimensions

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.

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