



DynAmp

# RR30000 & 60000

## LEM~flex™ High Current Probe



### Description

LEM~flex™ high current probe provides current measurement up to 60000 A RMS. The uniquely designed flexible head allows the LEM~flex to be used in tight spaces where a clamp-on type meter or CT cannot be used. The LEM~flex™ provides a voltage output proportional to the input current waveform in the conductor. The output signal is available via a BNC connector to allow quick connection to oscilloscopes, data loggers, or the voltage terminals of a multimeter via banana plug adapters (provided).

The LEM~flex™ provides two switch selectable ranges, a battery power/level indicator, and an external power jack. An external power adapter is available for applications that require extended or continuous use of the LEM~flex™.

### Specifications

<b>Output Signal</b>	3.0 Vac or $\pm 4.2$ VPK ( >500 Ohms load )
<b>Scaling</b>	3 kA / 30 kA @1mV / 0.1 mV per amp 6 kA / 60 kA @ 0.5 mV/ 0.05 mV per amp output
<b>Accuracy</b>	$\pm 1.0$ % of full scale
<b>Linearity</b>	$\pm 0.2$ % of reading 10%-100% of full scale
<b>Repeatability</b>	$\pm 0.1$ % of reading 10%-100 % of full scale
<b>Frequency Resp.</b>	8 Hz to 100 kHz ( -3 dB points )
<b>Phase error</b>	< $\pm 0.5$ ° maximum 50/60Hz
<b>Noise</b>	5 mVac maximum
<b>Temperature range</b>	
Electronics	-4° F to 185° F / -20° C to 85° C
Head	-4° F to 212° F / -20° C to 100° C

### Temperature sensitivity

Gain change	$\pm 0.08$ % / ° C maximum
DC offset	$\pm 0.3$ mV / ° C maximum
<b>Position sensitivity</b>	
Measured bus	$\pm 2.0$ %   max > 1" from head
Ext. field influence	$\pm 1.0$ %   max > 8" from head
<b>Power source</b>	+ 3.0 Vdc / 100 mA from (2) 1.5 V "AA" alkaline cells or external power via power connector; 25
hours of battery life	
<b>Control switch</b>	Three position slide switch for range and power; low range / off / high range LED Flashes once per 3 sec. when on and the battery voltage is good.
<b>Transducer</b>	
Safety Rating	Double Insulated, Installation Cat. III, Pollution Degree 2, 600Vac to Earth
Material	TPE rubber, Polypropylene
Min. bend radius	1.5 in. / 38.1 mm
Cable Diameter	0.625 in. / 15.87 mm
Coupling O.D.	0.875 in. / 22.2 mm
Dimensions :	
Length (Open)	36 in. / 915 mm
O.D. (Closed)	12.0 in. / 305mm
I.D. (Closed)	10.9 in. / 277mm
Weight	0.6 lbs. / 0.27 kg
<b>Interconnection Cable</b>	
Safety Rating	Double Insulated, Installation Cat. III, Pollution Degree 2, 600 Vac to Earth
Length	78.7 in. / 2.0 m
<b>Electronics Box</b>	
Material	ABS Plastic
Dimensions	1.0 H x 2.4 W x 3.8 D in. 25.4 H x 71.0 W x 96.5 D mm
Weight	0.5 lbs. / 0.045 kg (w/batteries)
Input	LEM~flex Transducer
Output Connector	BNC Female
<b>Isolation</b>	
Max recommended	600Vac working voltage
Head Hi-Pot test	5000Vac for 1 minute surface to output

Specifications subject to change without notice

### Ordering Information

Includes  
LEM~flex™ probe and batteries  
Male to male BNC output cable (12 in./304.8 mm)  
BNC female to dual banana plug adapter.

Please specify:

Ranges	Model Number	Part #
3kA / 30 kA	RR30000-SD/36	41503
6kA / 60 kA	RR60000-SD/36	41095