

AC Current transducer APR-B10

Split core transducer for the electronic measurement distorted AC waveforms current, with galvanic isolation between the primary (High power) and the secondary circuits (Electronic circuit). Switch selectable ranges and True RMS 0-5V and 0-10V switch selectable voltage output.





Preliminary

Electr	ical data			
Primary Nor	minal Current .RMS)	Analogue Output Signal $V_{\scriptscriptstyle ext{OUT}}(V)$	Туре	
10,25,50		0-5V or 0-10V	APR 50 B10	
50,75,100		0-5V or 0-10V	APR 100 B10	
100,150,200		0-5V or 0-10V	APR 200 B10	
200,300,400		0-5V or 0-10V	APR 400 B10	
$egin{array}{c} oldsymbol{R}_{L} \ oldsymbol{V}_{C} \ oldsymbol{V}_{d} \end{array}$	Load resistance Supply voltage R.m.s. voltage for Limitation of voltag	AC isolation test, 50/60Hz, 1 mn ge output	≥ 10 +24 ±5% 5 18	kΩ V DC kV V

	Accuracy-Dynamic performance data					
х	Accuracy @ I_{PN} , $T_{\Delta} = 25^{\circ}C$ (without offset)	< ±1	% of I _{DN}			
			% of I _{PN}			
e L V _{OE}	Electrical offset voltage, $T_{\Delta} = 25^{\circ}C$		% of I			
Vot	Thermal drift of V _{OF}	±1	mV/K			
V _{OT}	Thermal drift of the gain (% of reading)	±0.1	%/K			
t,	Response time @ 90% of I _p	< 1000	ms			
f	Frequency bandwidth (-3 dB)	1060	00 Hz			

General data						
T _A T _S m	Ambient operating temperature Ambient storage temperature Mass Protection type Reliable isolation according to EN50178, EN61010 Creepage distance EMC in accordance with EN50082-2 Plastic according to UL94V0, CTI 1	-20 +60 -20 +85 90 IP20 300 >5.5	°C °C g VAC mm			
	EMC in accordance with EN50082-2	. 3.3				

Notes: Installation and maintenance should be done with power supply disconnected.

$I_{PN} = 10 ... 400 A$



Features

- VFD and SCR waveforms current measurement
- True RMS output
- Split core type
- 5V & 10V switch selectable voltage output.
- DIN mounting & Panel mounting
- Eliminates insertion loss
- Switch selectable ranges

Advantages

- Large aperture for cable up to Ø18mm
- High isolation between primary and secondary circuits
- Easy to mount

Applications

- VFD Controlled Loads:
 VFD output indicates how the motor and attached load are operating.
- SCR Controlled Loads:

Acurate measurement of phase angle fired or burst fired (time proportioned) SCRs. Current measurement gives faster response than temperature measurement.

 Switching Power Supplies and Electronic Ballasts:

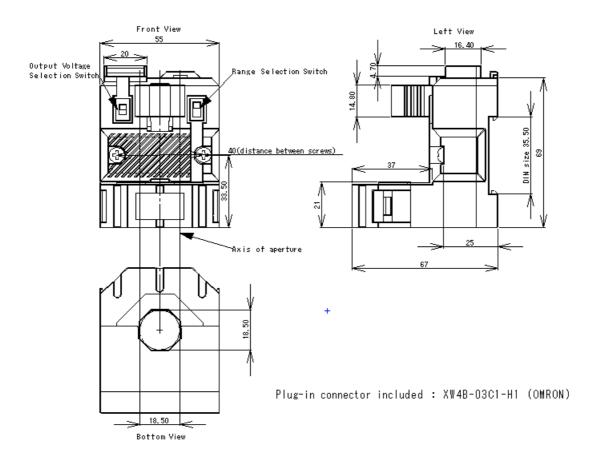
True RMS sensing is the most accurate way to measure power supply or ballast input power.

030708/0

LEM Components



Dimensions AP(R)-B10 (unit: mm, 1mm = 0.0394 inch)



Mechanical characteristics

General tolerance ±1 mm
 Primary aperture Ø 18.5 mm
 Panel mounting 2 holes Ø 4.0 mm

• Distance between holes 40.0 mm

For panel mounting, replace M4 screws by new one (not supplied) with appropriate length to panel s thickness.

Connections

ullet Wires up to 2 mm \varnothing

0-5, 10V Selectable

