

AC Current transducer AP-B10

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





	trical data			
Primary Nominal Current I _{PN} (A.t.RMS)		Analogue Output Signal V _{OUT} (V)	Туре	
10,25,50 50,75,100 100,150,200 200,300,400		0-5V or 0-10V 0-5V or 0-10V	AP 50 B10 AP 100 B10 AP 200 B10 AP 400 B10	
R _L V _C I _C	Load resistance Supply voltage Current Consump Limitation of voltage Limitation of voltage Overloaded input	ge output (0-10V) ge output (0-5V)	≥ 10 +24 ±5 < 30 14 7 no limi	kΩ % V DC mA V V tation
Accı	uracy-Dynamic	performance data		
X • • • • • • • • • • • • •	Linearity (0 \pm I _{PN} , Electrical offset vo Thermal drift of V _C	oltage, $\mathbf{T}_{A} = 25^{\circ}\mathrm{C}$ e gain (% of reading) 90% of \mathbf{I}_{P}		% of I _{PN} % of I _{PN} % of I _{PN} mV/K %/K m s
Gen	eral data			
T _A T _S m dCp dCl CTI	Ambient operating Ambient storage of Mass Protection type Creepage distance Clearance distance Comparative track UL94 classification	temperature se ce cing index (Group I)	-20 + -20 + 90 IP20 5.5 5.5 600 V0	
Insu	lation category			
V _b	Rated Voltage with IEC 61010-1 - Single insula	category CAT III ree PD2	300	V
V d V e V w	R.m.s. voltage for R.m.s. voltage for Peak impulse with If insulated cable in	AC insulation test, 50Hz, 1mn partial discharge extinction @ 10pC instand voltage 1.2/50μs is used for the primary circuit, the vold with the following table:	6.1	kV kV kV egory

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



Features

- 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

- Automation systems
 Analog current reading for remote monitoring (e.g. motor) and software alarms.
- Panelmeters
 Simple connection displays power consumption.

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

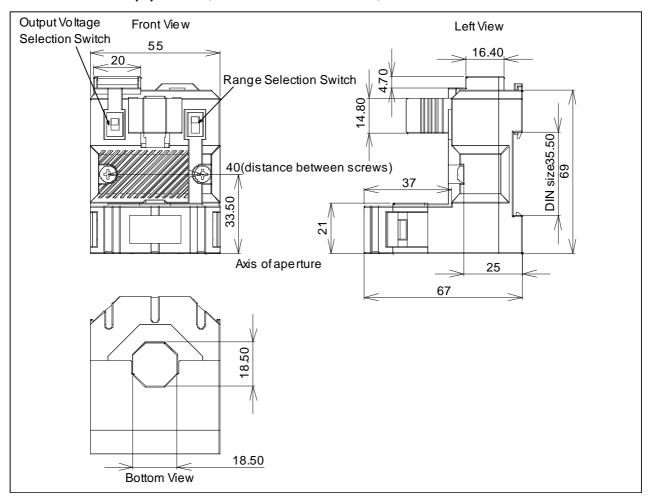
The operator must have accrediation to install this material.

The users must take care of all protection gurantee against electrical shock.

LEM Components www.lem.com



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

Wires up to 2 mm Ø
0-5, 10V Selectable

