

E83-2050

AC current transducer



Benefits

- **7 selectable input ranges.**
- **LED indication for power supply.**
- **Analogue output.** For easy interface to PLC.
- **Small size.** To fit panels without having to redesign them.

Description

E83-2050 is a small size AC current transducer with built-in current transformer and 4-20 mA DC analogue output.

12 mm hole for insulated current wire to easily insert the metered cable (multiple times if needed).

For mounting on DIN-rail or back panel.

Applications

E83-2050 is used in a wide range of applications for HVAC, smart building, machine tools and material handling markets, where a dedicated supervisory control unit manages the system. It allows to transmit motor current for PLC analysis.

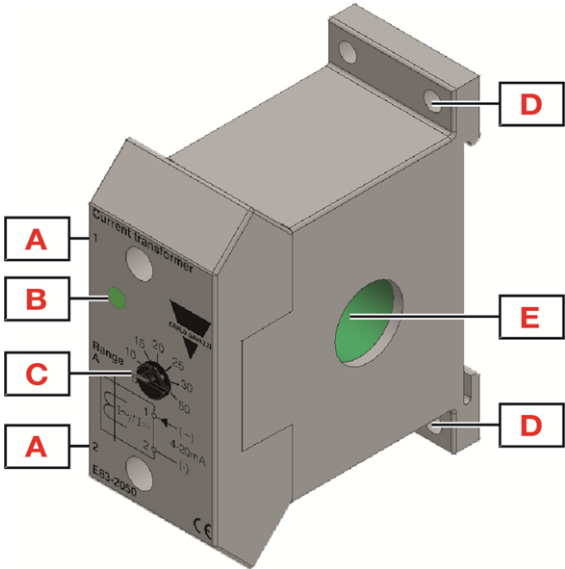
Main features

- Input range up to 50 A.
- 4-20 mA DC output.
- Powered by loop voltage.

Order code

Input current	Output current	Switch position	Component name/part number
0 - 5 A AC	4 - 20 mA DC	5	E83-2050
0 - 10 A AC		10	
0 - 15 A AC		15	
0 - 20 A AC		20	
0 - 25 A AC		25	
0 - 30 A AC		30	
0 - 50 A AC		50	

Structure



Element	Component	Function
A	Terminals	Analogue output: 1, 2
B	Information LED	Green for device ON
C	Front dial	Input range selection
D	Wall fixing holes	Wall mounting
E	Hole	For current insulated wire

Features

Inputs

Current ranges	Input current	Switch position
	0 - 5 A AC	5
	0 - 10 A AC	10
	0 - 15 A AC	15
	0 - 20 A AC	20
	0 - 25 A AC	25
	0 - 30 A AC	30
	0 - 50 A AC	50
Current measuring		Direct through built-in current transformer
Maximum current (continuous)		100 A
Maximum overload current (t = 30 s)		300 A
Overvoltage category		III (IEC 60664)
Frequency range		40 Hz - 1 kHz

Note: it is possible to measure currents below the nominal range by drawing the conductor through the hole several times. If the conductor is drawn through the central hole e.g. 5 times, the transformer will measure 5 A AC when the current in the conductor is 1 A AC.

Outputs

Output current (sink)	4-20 mA DC
Maximum output current	30 mA DC
Tolerance of output current	± 2% on full scale @ 50 Hz
Temperature variation	± 400 ppm/°C
Frequency variation	10 ppm/Hz
Power supply (loop voltage)	10 - 40 V DC
Consumption	< 1 W

General

Material	Polycarbonate or Polycarbonate/ABS Alloy
	Flammability rating: HB according to UL 94
Colour	RAL 7035 (light grey)
Dimensions (W x H x D)	22.5 x 55.4 x 47.4 mm (0.89 x 2.18 x 1.87 in)