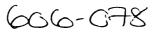
Current and Voltage Controls AC Current Transformer Type E 82-20, Mini E-housing





• 3 input ranges in one unit: 0 - 5 AAC

0 - 10 AAC

0 - 25 AAC

or 0 - 20 AAC

0 - 30 AAC

0 - 50 AAC

• Output 4-20 mADC

Easy interface to PLC or setpoint relays

 For mounting on DIN-rail in accordance with DIN/EN 50 022

• 22.5 mm small Euronorm housing

Product Description

Small AC current metering transformer with 3 knob selectable ranges. Output from the transformer is 4-20 mADC in accordance with IEC 381. Can be used with relay EID, EII or S183 or directly connected to a PLC.

Power supply ON is indicated by a green LED.

12 mm hole for isolated current carrying wire makes it suitable for most applications. For mounting on DINrail or directly on surface by screws.

Ordering Key E 82-20 50

Туре	
Output —	ı
Input current (highest range)————	

Type Selection

nput current	Output current	Switch position	Type no.
0- 5 AAC 0-10 AAC 0-25 AAC 0-20 AAC 0-30 AAC	4 - 20 mA 4 - 20 mA	5 10 25 20 30 50	E82-20 25 E82-20 25 E82-20 25 E82-20 50 E82-20 50

Input Specifications

lubor specifications						
	0 - 5 AAC	0 - 10 AAC	0 - 20 AAC	0 - 25 AAC	0 - 30 AAC	0 - 50 AAC
Current range	0 - 5 AAC	0 - 10 /410		50.440	100 AAC	100 AAC
	50 AAC	50 AAC	100 AAC	50 AAC	TOU AAC	1007010
Max. current (continuously)			200 440	150 AAC	300 AAC	300 AAC
Max. overload current (t = 30 s) 150 AAC	150 AAC	300 AAC	150 AAC	5557415	

Output Specifications

• • · · · · · · · · · · · · · · · · · ·	
Output current (sink)	4-20 mADC
Maximum output current	35 mADC
Tolerance of output current @ 50 Hz	± 2%
Temperature variation	± 400 ppm/°C
Reaction time	τ < 100 ms worst case reaction time may be up to 5 x τ
Frequency range	40 Hz - 1 kHz
Frequency variation	10 ppm/Hz
Power ON delay	<1s
Terminal capacity	2 x 1.5 mm ² wires in each
Power supply (loop voltage)	10-40 VDC

General Specifications

Octicial abouting	
EMC Immunity	Electromagnetic Compatibility acc. to EN50082-1 (tolerance of output current: ± 2%) acc. to EN50082-2 (tolerance of output current: ± 5%)
Emission	acc. to EN50081-1
Environment Degree of protection Pollution degree Operating temperature	IP 20 3 -20 to +50°C (-4 to +122°F)
Indication for Power supply ON	LED, green
Weight	70 g
Dimensions	49 x 22.5 x 56 mm (LxWxH)

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Mode of Operation

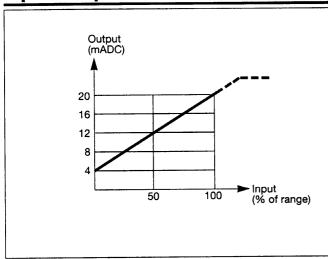
The E 82-20 is a small AC current metering transformer with standardized 4-20 mADC output. This makes it very useful as an AC current interface to a PLC with 4-20 mADC input.

Used with relay EID, EIL or S 183, one or more setpoints can monitor the current and signal alarm. S 183 also provides the DC voltage supply for the E 82-20.

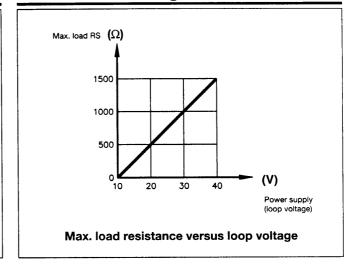
In the 5 A range the E 82-20 is often used as a 4-20 mADC

signal converter for larger standard AC current transformers with 5 AAC secondary output. The metered conductor is drawn through the central hole of the current metering transformer. 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 register 5 AAC when the current in the conductor is 1 AAC.

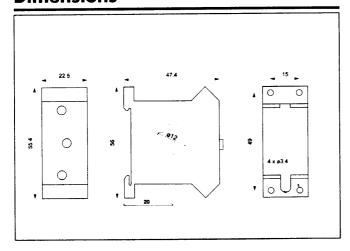
Input/Output Curve



Resistance/Voltage Curve



Dimensions



Wiring Diagram

