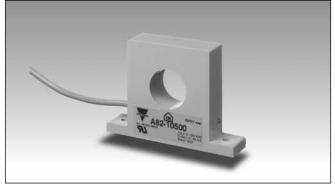
Monitoring Relays True RMS AC Current Transformer Types A 82-10, A 82-20, A 82-30



Product Description

True RMS AC current metering transformer for 25, 50, 100, 250 or 500 AAC. Output current in accordance with IEC 60381-1 (A 82-10, A 82-20) or output voltage in accordance with IEC 60381-2 (A 82-30).

with IEC 60381-1 (A 82-10, A 82-20) or output voltage in accordance with IEC 60381-2 (A 82-30). A 82-10 and A 82-20 can be used with relays DIB01, • 5 types of input:

- 0 25 AAC 0 - 50 AAC 0 - 100 AAC
- 0 250 AAC 0 - 500 AAC
- Output:
 - A 82-10: 0 20 mADC (source) A 82-20: 4 - 20 mADC (sink)
 - A 82-30: 0 10 VDC

• Easy interface to PLC or setpoint relays

Ordering Key

Type _____ Output _____ Input current _____

Type Selection

PIB01, DIC01 or PIC01.

Input current	Output	Type no.	
25 AAC 50 AAC 100 AAC 250 AAC	4 - 20 mA 4 - 20 mA 4 - 20 mA 4 - 20 mA 4 - 20 mA	A 82-20 25 A 82-20 50 A 82-20 100 A 82-20 250 A 82-20 500	

A 82-30 can be used with

DUB01, PUB01, DUB71,

All units can be directly con-

DUC01 or PUC01.

Input Specifications

	A 82-10/20/30 25	A 82-10/20/30 50	A 82-10/20/30 100	A 82-10/20/30 250	A 82-10/20/30 500
Current range	0 - 25 AAC	0 - 50 AAC	0 - 100 AAC	0 - 250 AAC	0 - 500 AAC
Max. current (continuously)	600 AAC	600 AAC	600 AAC	600 AAC	600 AAC
Max. overload current (t = 30 s)	3000 AAC	3000 AAC	3000 AAC	3000 AAC	3000 AAC
Rated insulation voltage Input - output	1000 VAC rms	1000 VAC rms	1000 VAC rms	1000 VAC rms	1000 VAC rms
Overvoltage category	IV (IEC 60664)	IV (IEC 60664)	IV (IEC 60664)	IV (IEC 60664)	IV (IEC 60664)
Dielectric strength Dielectric voltage Rated impulse withstand volt.	6 kVAC _{rms} 12 kV (1.2/50 μs)	6 kVAC _{ms} 12 kV (1.2/50 μs)	6 kVAC _{rms} 12 kV (1.2/50 μs)	6 kVAC _{rms} 12 kV (1.2/50 μs)	6 kVAC _{rms} 12 kV (1.2/50 μs)



A 82-10 50



Output Specifications

Rated insulation voltage (cable) 250 VACrms			
Output			
A 82-10	0 - 20 mADC		
A 82-20	4 - 20 mADC		
A 82-30	0 - 10 VDC		
Power supply (loop voltage)			
Á 82-10, A 82-20	10 - 40 VDC		
A 82-30	18 - 40 VDC		
Tolerance of output current			
@ 50 Hz A 82-10	±2%		
A 82-20	± 2%		
Tolerance of output voltage			
@ 50 Hz A 82-30	±2%		
Temperature variation	±400 ppm/°C		
Frequency range	40 Hz -1 kHz		
Frequency variation	10 ppm/Hz		
Maximum output current			
A 82-10, A 82-20	30 mADC		
Maximum output voltage			
A 82-30	15 VDC		
Minimum output load			
A 82-30	10 kΩ		

General Specifications

< 2 s		
T < 200 ms		
LED, green		
IP 40 3 (IEC 60664) -20° to 50°C (-4° to +122 °F)		
95 x 67.5 x 20 mm ABS		
n² n²		
UL		
Compatibility 61000-6-1 put ± 2%) 61000-6-2 put ± 5%) 61000-6-3		

Mode of Operation

A 82-10 and A 82-20 are true RMS current metering transformers with standard source/sink output 0-20 mA / 4-20 mA, whereas A 82-30 is a metering tranformer with 0-10 VDC output voltage. This makes them very useful as an AC current interface to a PLC with mADC or VDC input. Used with relays DIB01, PIB01, DIC01, PIC01 (A 82-10, A 82-20) or DUB01, PUB01, DUB71, DUC01, PUC01 (A 82-30), one or more setpoints can monitor the current and signal alarm. The metered conductor is drawn through the central hole of the current metering transformer. It is possible to meter 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 50 A when the current in the conductor is 10 A.

Dimensions

