

AC / DC transmitter

2279



- Input galvanically separated from output and supply
- AC current measurement
- AC voltage measurement
- Current and voltage output
- 24 VDC supply or universally supplied
- Applicable in PELV/SELV circuits



Advanced features

- $\pm 20\%$ adjustment of the 0 and the 100% measurement range is possible at the front panel.
- Input and output ranges are programmable by use of internal DIP-switches.

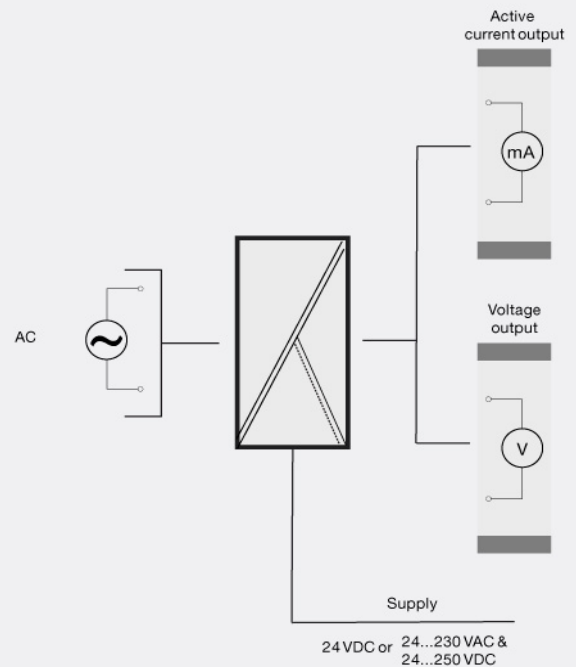
Application

- AC current measurement e.g. in connection with a current transformer or a current clamp.
- Direct AC voltage measurement.

Technical characteristics

- Analog signal conditioning with microprocessor based gain and zero offset.
- Signals in the ranges 0.5...250 VRMS sinusoidal voltage can be connected directly to the input, ranges are programmed via DIP-switches and jumpers.
- Analog standard current output of 0/4...20 mA or standard voltages of 0...1 or 0...10 VDC ranges are programmed via DIP-switches and jumpers.
- Special currents and voltages within the signal range.
- Signal reversal e.g. 20...4 mA is possible in a special version.
- Universally supplied units have a 3-port galvanic separation between input, supply, and output.
- Mounting for a standard 11-pole socket which can be adapted for DIN rail or plate use with PR's 7023 adaptor and 7024 mounting keying.

Connections



Order:

Type	Input	Output	Supply
2279	0...0.5 VRMS : A	Special : 0	24 VDC : D
	0...1 VRMS : B	0...20 mA : 1	24...230 VAC & : P
	0...2.83 VRMS : C	4...20 mA : 2	24...250 VDC
	(0...4 V peak)	0...1 V : 4	
	0...5 VRMS : D	0.2...1 V : 5	
	0...120 VRMS : E	0...10 V : 6	
	0...230 VRMS : F	2...10 V : 7	
	0...0.5 ARMS : G		
	0...1 ARMS : H		
	Special : X		

Environmental Conditions

Specifications range.....	-20°C to +60°C
Calibration temperature.....	20...28°C
Relative humidity.....	< 95% RH (non-cond.)
Protection degree.....	IP50

Mechanical specifications

Dimensions (HxWxD).....	80.5 x 35.5 x 84.5 mm (D is without pins)
Weight DC / universally supplied.....	100 g / 160 g

Common specifications

Supply voltage.....	19.2...28.8 VDC
Supply voltage, universal.....	21.6...253 VAC, 50...60 Hz or 19.2...300 VDC
Max. power consumption.....	≤ 1.3 W (2279-D)
Max. power consumption.....	≤ 2.2 W (2279-P)
Isolation voltage, test / working.....	3.75 kVAC / 250 VAC
Signal / noise ratio.....	Min. 60 dB
Response time (0...90%).....	< 1.5 s
Effect of supply voltage change.....	< 0.005% of span / VDC
Temperature coefficient.....	< ±0.01% of span / °C
Linearity error.....	< ±1% of span
EMC immunity influence.....	< ±0.5% of span

Input specifications

Max. offset.....	50% of max. value
Current input: Measurement range.....	0...1 ARMS / 40...400 Hz
Min. measurement range (span), current input.....	500 mARMS
Input resistance, current input.....	Nom. 1 Ω
Voltage input: Measurement range.....	0...250 VRMS / 40...400 Hz
Min. measurement range (span), voltage input.....	0.5 VRMS
Input resistance, voltage input.....	> 1 MΩ

Output specifications

Max. offset.....	20% of max. value
Current output: Signal range.....	0...5 mA / 0...20 mA
Min. signal range.....	4 mA / 16 mA
Load (max.).....	20 mA/600 Ω/12 VDC
Load stability, current output.....	≤0.01% of span/100 Ω
Current limit.....	23...28 mA
Voltage output through internal shunt.....	See manual for details
*of span.....	= of the presently selected range

Approvals

EMC.....	EN 61326-1
LVD.....	EN 61010-1
PELV/SELV.....	IEC 364-4-41 and EN 60742
GOST R.....	Yes