

Programmable transducer PQ430RT combined for active and reactive power

The PQ430 is a μ P based programmable transducer for simultaneously measuring of active and reactive power in a three phase system. 3 or 4 wire unbalanced load. Measuring range and 3 / 4 wire system (2 or 3 element) is programmable via jumpers and a RS 232 port using a PC.

The transducer is connected to the mains directly or via measuring transformers.

It has galvanic separation between in- and output and power supply.

The transducer is made for mounting in 19" rack and has a width of 8 TE, which gives place for 10 modules in a rack. The transducer is manufactured according to standard IEC60688.

Technical data - Type PQ430RT

Input

Voltage	100,110,115,120 V via jumper
Consumption	U _{in} x 1 mA, VA per phase
(burden)	
Current	1 or 5 A via jumper
Consumption	<0,05 VA per phase
(burden)	
Frequency	50 or 60 Hz
Overload	Current 2 x I _{in} continuously
	10 x I _{in} during 15 s, 40 x I _{in} during 1 s
	but 200 A max.
	Voltage 1,5 x U _{in} continuously, 2 x U _{in}
	during 10 s
Output	
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Load max 15 V Current limitation <30 mA Ripple <1% p.p.

Standards

General standards for	r measuring transducers IEC60688
EMC	emission EN50081-2
	immunity EN 50082-2
Safety	IEC61010-1, IEC1010-1
Inputs	overvoltage cat. III
Outputs	overvoltage cat. II
Pollution degree	2

PQ430RT has **test plugs** in front to provide a mirror image of the output signals







General data

Accuracy

Class Linearity error Response time 0-90% Temperature influence Temperature range

Test voltage Power supply Weight 0,2 according to IEC60688 <0,1% <100 ms <0,05% / 10°C -25...+60 °C operation -40...+70 °C storage 4 kV, 50 Hz, 1 min 24 – 130 V DC ±20%, ca 4 W 0.6 kg