

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 10 TE, which gives place for 8 modules in a rack.

The transducer is manufactured according to standard IEC60688.



Technical data - Type PQ430RT

Input

Voltage Consumption (burden) Current Consumption (burden) Frequency Overload 100,110,115,120 V via jumper $U_{in} \ x \ 1 \ mA, \ VA \ per \ phase$

1 or 5 A via jumper <0,05 VA per phase

uency 50 or 60 Hz cload 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

Output signal ±2,5 mA, or 4-20 mA

Load	max 15 V	
Current limitation		<30 mA
Ripple	<1% p.p.	

General data

Accuracy

Class0,2 aLinearity error<0,1</td>Response time 0-90%Temperature influence<0,05</td>Temperature range-25...-40...Test voltage4 kV,Power supply24 –

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

Standards

Weight

General standards for measuring transducers IEC60688EMCemission EN50081-2immunity EN 50082-2SafetyIEC61010-1, IEC1010-1Inputsovervoltage cat. IIIOutputsovervoltage cat. IIPollution degree2

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