

Energom-QP-X

AC Power Transducer
Three phase for DIN mounting



Description

Energom-QP-X series AC power transducer converts three phase ac signals into a load independent dc signal proportional to voltage(V), current(A), active power (watt) and reactive power (var) Frequency(Hz) etc. Three output signals combination in one transducer.

The current and voltage signals are passed into the circuit via precision instrument transformers to provide galvanic isolation between the input circuits and the transducer circuitry. Each pair of current and voltage signals is mathematically multiplied together to produce a product signal proportional to true power and independent of wave shape and phase angle.

Features

- 0.5 measurement accuracy
- RMS measurement and output
- Three phase independent measurement
- 35mm Din rail mounting
- RS485 port optional
- Max 4 channels AO signal to different equipment
- Support customized parameters

Technical characteristics

Power Signal Inputs	
Nominal input	1 or 5 Amp C.T. connected 110V, 230V, 240V, 400V, 415V ac +/-20%
Power consumption	<1 VA voltage <0.2 VA current
Overload capacity	Current: 2 times continuous, 30 times /1s . Voltage: 2 times continuous.
Frequency range	50Hz, 60Hz
Measurement Output	
Standard outputs (others on request)	4~20mA, 0~5V, 0~20mA; 5~10V; 0~10V;
Maximum load	<750 Ω (0-20 mA, 4-20 mA) >2000 Ω (voltage output)
Ripple	<1% peak to peak
Response time	<250ms 0-90% <500ms 0-99%
Measurement Accuracy	
Class	±0.2 % / ±0.5 %complying with IEC 688
Accurate range	0 - 120% I
Frequency influence	<0.02% per Hz
Load influence	<0.25% of full span for specific load range
Auxiliary Supply	
	48V, 110V, 230/240V AC 20%, 1.5VA 24V, 48V, 110V DC 20% 2W
Galvanic isolation between input, output circuits and auxiliary supply	
Test voltage	2KV RMS 50Hz for 1 minute
impulse	4KV 1.2/50µsec waveform
Temperature requirements	
Operating	-10~55C
Storage	-40~70C, 20 ~ 93%RH ; Noncondensing