



Model : RPW

Features

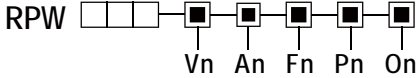
- The RP series are DIN-case electrical power transducers designed for the general industries applications
- Manufactured to strict compliance IEC 688.
- The input & output parameters are per-selected from a wide range of industries' compatible signals and other non-stated ranges are available on request or as options
- Well-proven applied circuitries fully ensuring long term stability
- DIN case in small size of space saving
- Protective touch-proof terminals and enclosure meeting requirements of VBG4 & VDE 0106 part 100 (Germany)

Compliance : IEC 688
 Power transducers
 Measuring & conversion
 Dielectric Strength
 Impulse test
 Surge test

New Hybrid Asic Designed Electric Transducer

- High performance & stability of less than 100 ppm drift per °C change
- High impulse & surge protection of up to 5KV (RMS) meeting IEC 255-4
- Commonly for DIN rail-mounting

Order form

Connection	Model	Standard analog calibration			RPW 
			1A	5A	
3 Phase 3 Wire Balance	RPW200	V1=VL=120V V2=VL=240V V3=VL=415V	100 200 400	500 1K 2K	Example : RPW201-V1-A2-F2-P1-O3 Note : Voltage input : Phase voltage for 3 phase 4 wire (Vp) Line to line voltage for 3 phase 3 wire (VL)
3 Phase 3 Wire Unbalance	RPW201	V1=VL=120V V2=VL=240V V3=VL=415V	200 400 800	1K 2K 4K	
3 Phase 4 Wire Unbalance	RPW301	V0=VP=69.3V V1=VP=120V V2=VP=240V V3=VP=415V	200 300 600 1.2K	1K 1.5K 3K 6K	

Input & output parameters

Input Parameter	Rating	V0	V1	V2	V3	On : Output		
						O1	O2	O3 (uni.)
Vn : Voltage input	range	69.3 V 45-86 V	120 V 85-150 V	240 V 180-300 V	415 V 300-500 V	O1 0-1 mA	O2 0-20 mA	O3 (uni.) 4-20 mA
An : Current input	range	A1 1A 0-1.2A	A2 5A 0-6A			O4 (bi.) 4-12-20 mA	O5 0-10 mA	O6 0-1 V
Fn : Frequency input	range	F1 50 Hz 48-52 Hz	F2 60 Hz 58-62 Hz			O7 0-5 V	O8 0-10 V	O9 2-10 V
Pn : Auxiliary power input	rating	P1 120 V	P2 240 V	Py Internal powered / DC powered order on request				

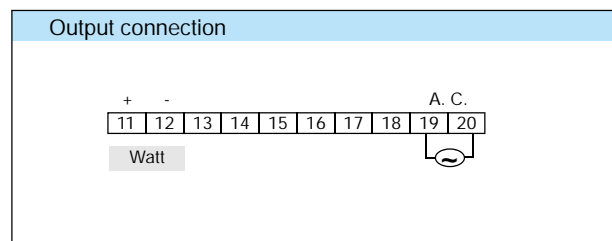
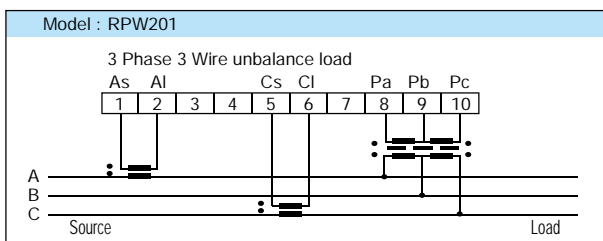
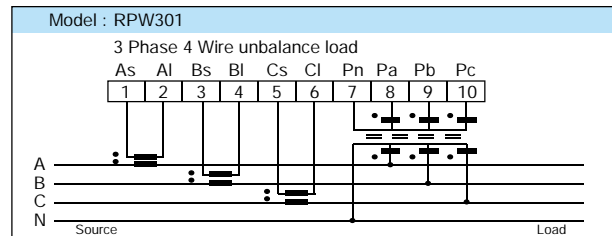
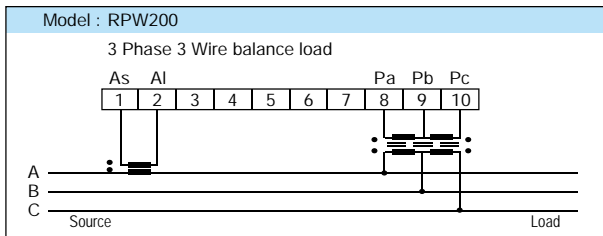
Note :

1. uni. = uni-direction = 0 to +span bi = bi-direction = -span to 0 to +span
 Example : 4-20mA = 0 to +1000W 4-12-20mA = -1000W to 0 to +1000W
2. For uni-directional transducers, watts for forward power
3. For internal powered type ... zero based outputs and Vn operation range 85%-115%

Specification

Accuracy (23±5°C)	0.2% ro
Stability	Maximum 100ppm / °C, less 0.2% drift per year typically
Input bruden	Current 0.3VA typically; voltage 0.2VA typically
Frequency	50±2Hz, 60±2Hz
Maximum input over	Current related input : 2 x rated continuous, 10 x rated 10 sec, 25 x rated 2 sec, 50 x rated 1 sec Voltage related input : maximum 2 x rated continuous (120V / 240V), maximum 1.5 x rated continuous (415V)
Output load	DC current mode : maximum 10V drop DC voltage mode : maximum 5mA drive
Response & ripple	< 400ms for step change 0-95%, ripple less 0.5% ro peak-peak
Magnetic effect	< 0.05% change 1M center 100 amper-turn , synchronized with line frequency
Aux. power effect	< 0.005% for per voltage change
Dielectric strength	4KV AC rms 1 minute between terminals to case IEC 688 2KV AC rms 1 minute between input / output / power IEC 688
Impulse / SWC	IEC 255-4, 5KV 1.2x50us , IEC255-22-1, 2.5KV (1MHz / 400Hz)
Operating condition	-5 to 60°C, 20 to 99% RH non condensing
Storage condition	-20 to 70°C, 20 to 99% RH non condensing
Radio screening	RFI degree N complies with VDE 0875
Enclosure code	Case IP 50 / terminals IP 30, complies with IEC 529, BS 5490 DIN 40050
Power supply	AC 120V / 240V ±15%, 50 / 60Hz, < 3.5W

Terminals Connection



Note : 1. A.C. : Auxiliary AC power
2. Terminal 19 (+), 20 (-) for DC power option

Dimension

