



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

Model : RPWH

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)

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			
			1A	5A	
3 Phase 4 Wire Unbalance	RPWH301	V0= 69.3V V1= 120V V2= 240V V3= 415V	200 300 600 1.2K	1K 1.5K 3K 6K	Example : RPWH301-V1-A2-F2-P1-O3-X1

Input & output parameters

Parameter	Rating	V0	V1	V2	V3	Output
Vn : Voltage input	Vn rating range	69.3 V 45~86 V	120 V 85~150 V	240 V 180~300 V	415 V 300~500 V	Xn : standard pulse output for uni-direction X1 / X3 = 1 pulse / wh X2 / X4 = 10 pulse / wh
An : Current input	An rating range	A1 1A 0~1.2 A	A2 5A 0~6 A			Yn: optional pulse output for bi-direction Y1 / Y3 = 1 pulse / wh Y2 / Y4 = 10 pulse / wh
Fn : Frequency input	Fn rating range	F1 50 Hz 48~52 Hz	F2 60 Hz 58~62 Hz			X1, X2, Y1, Y2 : open collector type X3, X4, Y3, Y4 : reed relay type
Pn : Auxiliary power input	Pn rating	P1 120 V	P2 240 V	Py		Internal powered / DC powered order on request

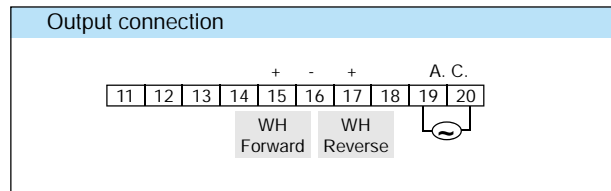
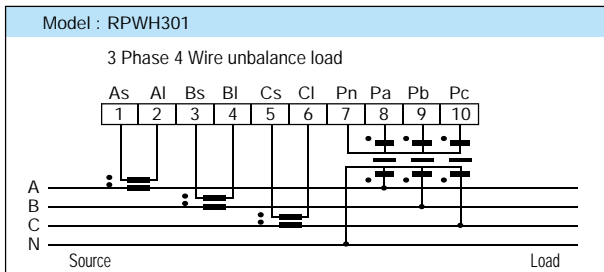
Note :

1. uni-direction for wathhour of forward power
2. 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
Output of WH	Open collector type, maximum 30V / 30mA ; reed relay type, maximum 50V / 40mA
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, 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, < 4W

Terminals Connection



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

Dimension

