

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

## Model : RPWK

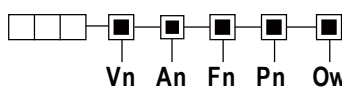
### Features

- 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			RPWK 
			1A	5A	
3 Phase 3 Wire Balance	RPWK200	V1 = VL = 120V V2 = VL = 240V V3 = VL = 415V	100 200 400	500 1K 2K	Example : RPWK201-V1-A2-F3-P1-O3/O6  <b>Note :</b> 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	RPWK201	V1 = VL = 120V V2 = VL = 240V V3 = VL = 415V	200 400 800	1K 2K 4K	
3 Phase 4 Wire Unbalance	RPWK301	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

Vn : Voltage input	Vn rating range	V0	V1	V2	V3	Own :Watt output		Okn: Var output
		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	An rating range	A1	A2			O4 (bi.)	O5	O6
		1 A 0~1.2 A	5 A 0~6 A			4~12~20 mA	0~10 mA	0~1 V
Fn : Frequency input	Fn range	F3				O7	O8	O9
		48~62 Hz				0~5 V	0~10 V	2~10 V
Pn : Auxiliary power input	Pn rating	P1	P2	Py		O10 (uni.)	O11 (bi.)	
		120 V	240 V	Internal powered / DC powered order on request		1~5 V	1~3~5 V	

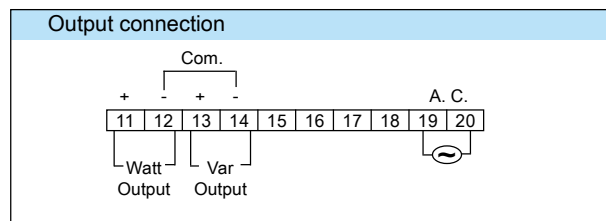
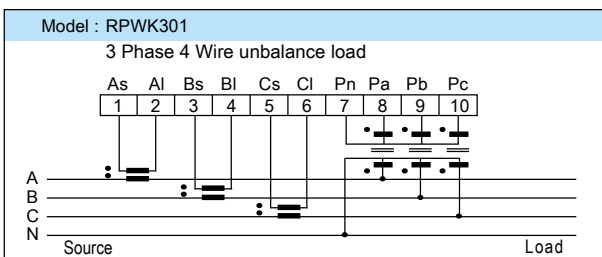
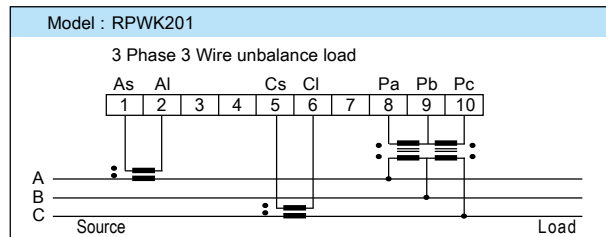
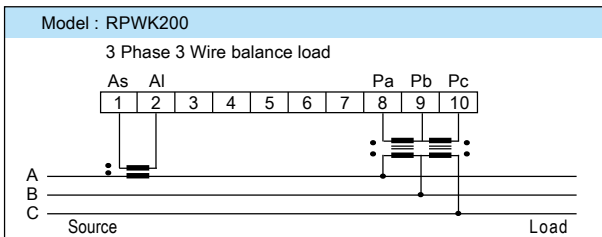
### Note :

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

## Specification

<b>Accuracy ( 23 ± 5°C)</b>	0.2% ro
<b>Stability</b>	Maximum 100ppm / °C, less 0.2% drift per year typically
<b>Input burden</b>	Current 0.3VA typically, voltage 0.2VA typically
<b>Frequency</b>	48~62Hz
<b>Maximum input over</b>	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 )
<b>Output load</b>	DC current mode : maximum 10V drop DC voltage mode : maximum 5mA drive
<b>Response &amp; ripple</b>	< 400ms for step change 0-95%, ripple less 0.5% ro peak-peak
<b>Magnetic effect</b>	< 0.05% change 1M center 100 ampere-turn, synchronized with line frequency
<b>Aux. power effect</b>	< 0.005% for per voltage change
<b>Dielectric strength</b>	4KV AC rms 1 minute between terminals to case IEC 688 2KV AC rms 1 minute between input / output / power IEC 688
<b>Impulse / SWC</b>	IEC 255-4, 5KV 1.2x50us, IEC255-22-1, 2.5KV ( 1MHz / 400Hz )
<b>Operating condition</b>	-5 to 60°C, 20 to 99% RH non condensing
<b>Storage condition</b>	-20 to 70°C, 20 to 99% RH non condensing
<b>Radio screening</b>	RFI degree N complies with VDE 0875
<b>Enclosure code</b>	Case IP 50 / terminals IP 30, complies with IEC 529, BS 5490 DIN 40050
<b>Power supply</b>	AC 120V / 240V±15%, 50 / 60Hz, < 7W

## Terminals Connection



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

## Dimension

