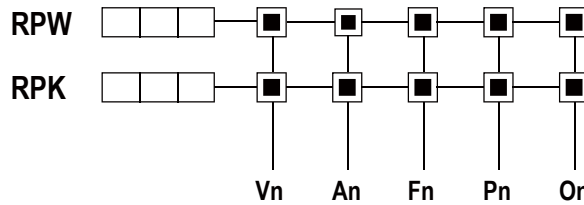


Compliance : IEC 688  
 Power transducers  
 Measuring & conversion  
 Dielectric Strength  
 Impulse test  
 Surge test

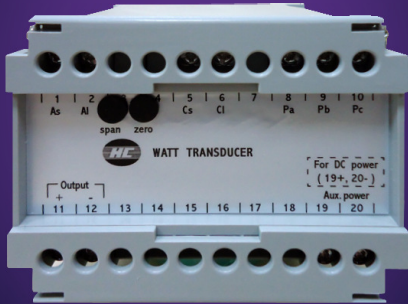
## WATT & VAR TRANSDUCER

Model : RPW ; RPK

### Order form



Example : RPW201-V1-A2-F2-P1-O3



### Order form

Connection	Model	Standard analog calibration			Note :
			1A	5A	
1 Phase 2 Wire	RPW101	V1 = 120V V2 = 240V V3 = 415V	100 200 400	500 1K 2K	Voltage input : Phase voltage for 3 phase 4 wire (Vp) Line to line voltage for 3 phase 3 wire (VL)
3 Phase 3 Wire Balance	RPW200 RPK200	V1=VL=120V V2=VL=240V V3=VL=415V	100 200 400	500 1K 2K	
3 Phase 3 Wire Unbalance	RPW201 RPK201	V1=VL=120V V2=VL=240V V3=VL=415V	200 400 800	1K 2K 4K	
3 Phase 4 Wire Balance	RPW300 RPK300	V1 = 120V V2 = 240V V3 = 415V	100 200 400	500 1K 2K	
3 Phase 4 Wire Unbalance	RPW301 RPK301	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	V0	V1	V2	V3	On : Output		
Vn : Voltage input	rating 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	rating range	A1 1 A 0~1.2 A	A2 5 A 0~6 A			O4 (bi.) 4~12~20 mA	O5 0~10 mA	O6 0~1 V
Fn : Frequency input	rating 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				

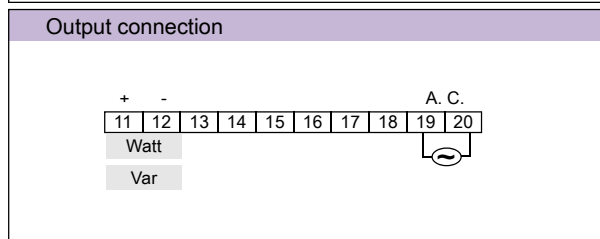
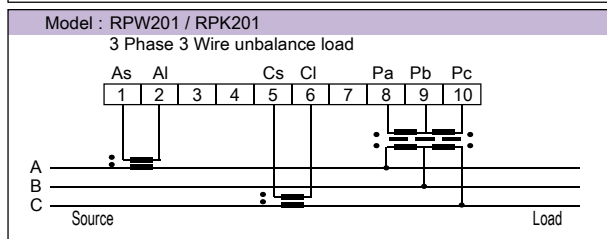
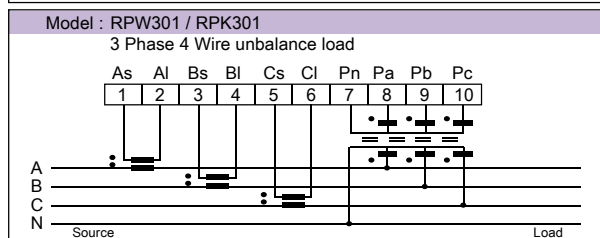
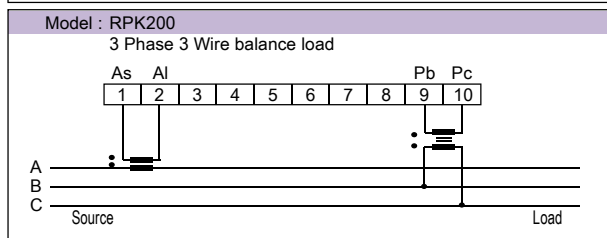
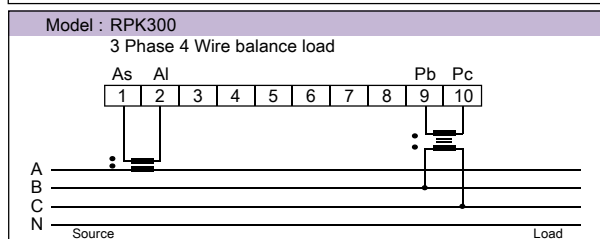
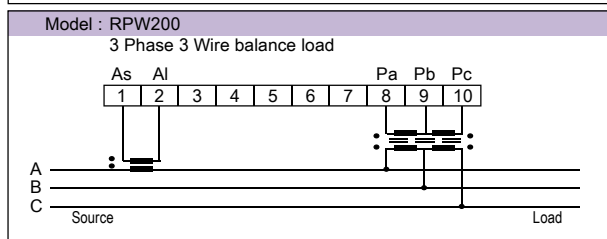
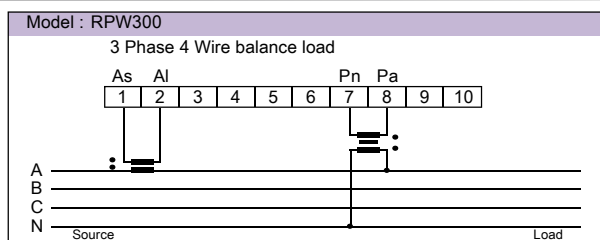
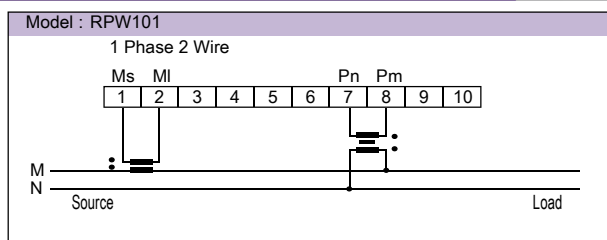
#### Note :

- 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
- For uni-directional transducers, watts for forward power and vars for lagging power
- For internal powered type ... zero based outputs and Vn operation range 85%-115%

## Specification

<b>Accuracy ( 23±5°C)</b>	0.2% ro	<b>Magnetic effect</b>	< 0.05% change 1M center 100 amper-turn, synchronized with line frequency
<b>Stability</b>	Maximum 100ppm / °C, less 0.2% drift per year typically	<b>Aux. power effect</b>	< 0.005% for per voltage change
<b>Input burden</b>	Current 0.3VA typically; voltage 0.2VA typically	<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>Frequency</b>	50±2Hz, 60±2Hz	<b>Impulse / SWC</b>	IEC 255-4, 5KV 1.2x50us, IEC255-22-1, 2.5KV ( 1MHz / 400Hz )
<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>Operating condition</b>	-5 to 60 °C, 20 to 99% RH non condensing
<b>Output load</b>	DC current mode : maximum 10V drop DC voltage mode : maximum 5mA drive	<b>Storage condition</b>	-20 to 70 °C, 20 to 99% RH non condensing
<b>Response &amp; ripple</b>	< 400ms for step change 0-95%, ripple less 0.5% ro peak-peak	<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, < 3.5W

## Terminals Connection



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

## Dimension

