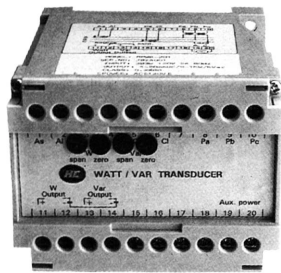


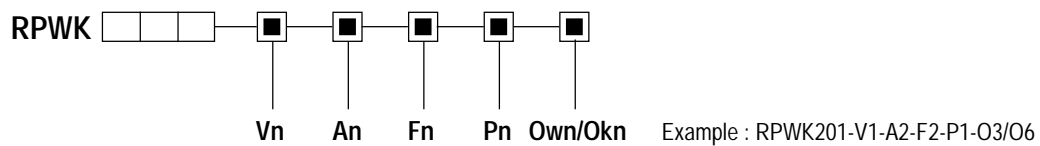
# WATT / VAR TRANSDUCER



**Compliance : IEC 688**

Power transducers  
Measuring & conversion  
Dielectric Strength  
Impulse test  
Surge test

## Order form



Connection	Model	Standard analog calibration			<b>Note :</b> Voltage input : Phase voltage for 3 phase 4 wire (Vp) Line to line voltage for 3 phase 3 wire (VL)
			1A	5A	
3 Phase 3 Wire Balance	RPWK200	V1 = VL = 120V V2 = VL = 240V V3 = VL = 415V	100 200 400	500 1K 1.5K	
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 Balance	RPWK300	V1 = VL = 120V V2 = VL = 240V V3 = VL = 415V	100 200 400	500 1K 1.5K	
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 rating range	V0 69.3 V 45-86 V	V1 120 V 85-150 V	V2 240 V 180-300 V	V3 415 V 300-500 V	Own : Watt output		Okn : Var output
						O1 0-1 mA	O2 0-20 mA	O3 (uni.) 4-20 mA
An : Current input	An 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	Fn 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	Pn rating	P1 120 V	P2 240 V	Py AC 415V / Internal powered / DC powered order on request				

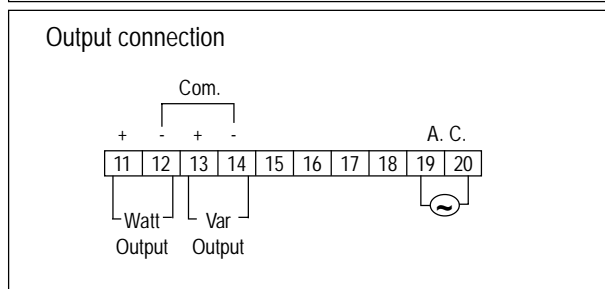
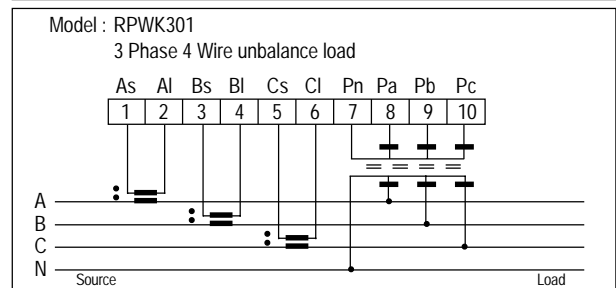
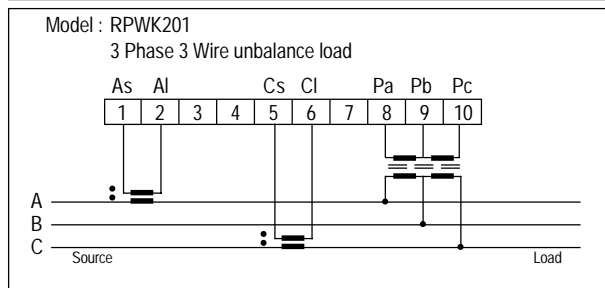
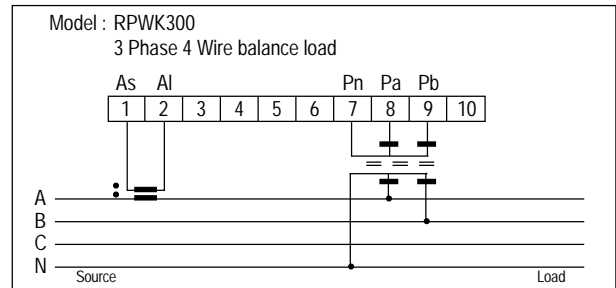
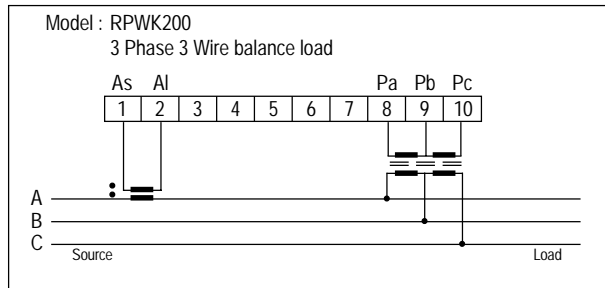
### Note :

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 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 bruden</b>	Current 0.3VA typically, voltage 0.2VA typically
<b>Frequency</b>	50± 2Hz, 60± 2Hz
<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 amper-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, < 7VA

## Terminals Connection



### Note :

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