

ADP400-Series Power Transducer

- Measure Watt, Var or Watt & Var
- 1P2W, 1P3W, 3P3W, 3P4W
- Balanced or unbalanced systems
- 2 years warranty
- Precision measurement even for distorted wave.
- High stability
- Low output ripple
- High protection against spikes & surges



Input

Voltage: Any up to 415Vmax (Typically 120 /240 /415V)

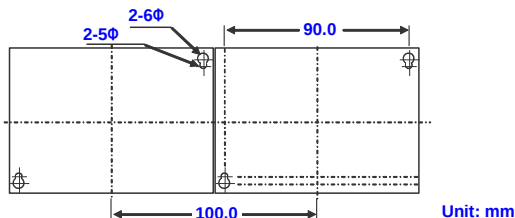
Current: Any up to 10A max (Typically 1A / 5A)

Input Burden 0.1VA

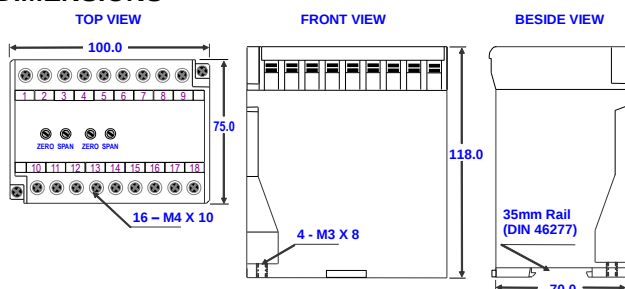
Output:

DC current or voltage specified in the range of:
Current up +/-20mA max (in to 550 ohms max)
Voltage any from +/-10V max (750 ohms min)
Typical output range: 4 – 12 - 20mA (550 ohms)

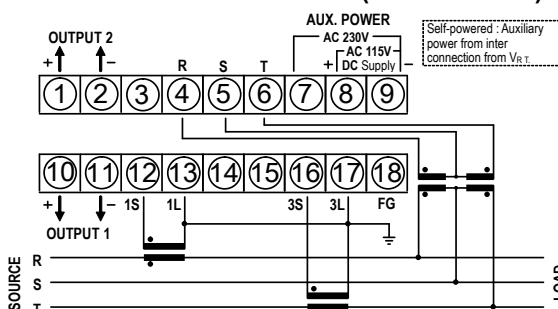
SURFACE MOUNTING HOLES



DIMENSIONS



Watt / Var / Watt & Var - 3Φ3W (Unbalanced)



Accuracy :

≤ ±0.2% of F.S.

Waveform effect:

≤ 0.2% of F.S. at 30% distortion

Max. input over :

Voltage: 1.5 x rated continuous
2 x rated for 10 seconds
4 x rated for 2 seconds
Current: 3 x rated continuous
10 x rated for 10 seconds
50 x rated for 1 second

Input frequency:

50 Hz ±3 Hz, 60 Hz ±3 Hz

Response time:

≤ 250 m-sec.

Span adjustment:

≤ ±5% of Span

Zero adjustment:

≤ ±2% of Span

Output load effect:

Current output ≤ 0.1% of F.S.

Power supply:

Voltage output ≤ 0.05% of F.S.
AC 115/230V ±15%, 50/60 Hz
AC 380 or 415V ±15%, 50/60 Hz
Option: DC 24V
Self Powered: From input volt
Working volt: ±15% of I/P V.

Power effect:

≤ 0.05% of F.S.

Power consumption:

≤ 4VA

Magnetic field strength:

400ATM ≤ 0.2% of F.S.

Operating temp:

0–60 °C

Relative humidity:

20–95 % RH, non-condensing

Temp coefficient:

≤ 100 PPM/°C

Storage temperature:

-10–70 °C

Dielectric Strength:

IEC 414, IEC 688:1992, ANSI C37.90a
Between Input / Output / Power / Case
AC 4KV, 50/60Hz, 1 min.

Surge test:

IEC 255-4, ANSI C37.90a
6KV, 1.2 x 50 μsec.
Common mode & differential mode

Safety:

IEC 414, BS 5458

Enclosure:

IEC 529 (IP30)

Isolation:

Input / Output / Power / Case

Insulation R:

≥ 100M ohm, DC 500V

Performance:

In accordance with IEC 688

Mounting:

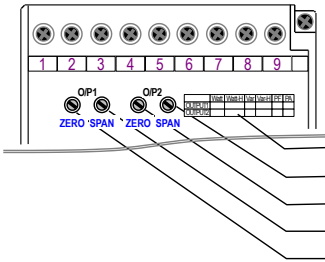
Wall or DIN rail (EN 50022)

Weight:

< 650g

ADJUSTMENT

Watt / Var / Watt & Var:



O/P port table specified for Watt, Var or Watt & Var.

O/P 2-Span Adjust Pot (Clockwise: PV increase)

O/P 2-Zero Adjust Pot (Clockwise: PV increase)

O/P 1-Span Adjust Pot (Clockwise: PV increase)

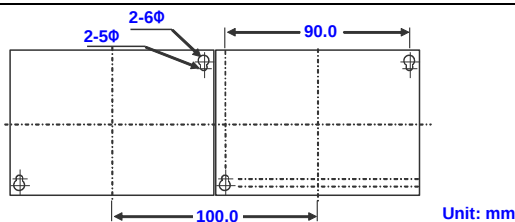
O/P 1-Zero Adjust Pot (Clockwise: PV increase)

OUTPUT RANGE PROGRAMMING

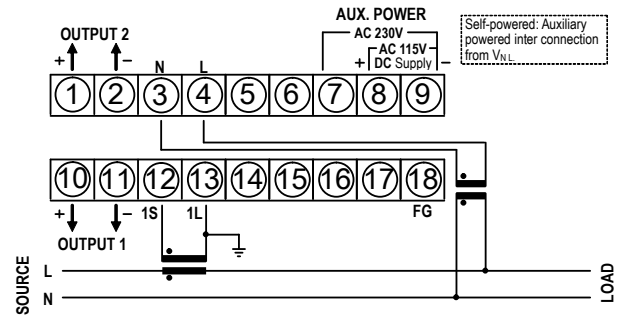
OUTPUT	PCB. WQHP2-2										JUMPER	
	DIP SWITCH										CN1	CN11
	1	2	3	4	5	6	7	8	9	10		
0-1 mA					0							X
0-5 mA					0	0				0		X
0-10 mA					0	0						X
0- 20 mA					0		0					X
4- 20 mA	0				0		0					X
0-0.5-1mA					0				0	0		X
0-5-10 mA					0	0			0	0		X
0-10-20 mA					0		0		0	0		X
4-12-20 mA	0				0		0		0	0		X
-1- 0-+1 mA					0						X	
-5- 0-+5 mA					0	0				0	X	
-10-+10mA					0	0					X	
-20-0-+20mA					0		on				X	
0-1 V		0	0	0					0			X
0-5 V			0	0					0			X
0-10 V				0					0			X
1-5 V	0		0	0					0			X
2-10 V	0			0					0			X
0-0.5 -1 V		0	0	0					0	0	0	X
0 -2.5- 5 V			0	0					0	0	0	X
0- 5-10 V				0					0	0	0	X
1- 3- 5 V	0		0	0					0	0	0	X
2- 6- 10 V	0			0					0	0	0	X
-1 -0 - +1 V		0	0	0					0			X
-5 - 0- +5 V			0	0					0			X
-10- 0-+10 V				0					0			X

* JUMPER: (1) x = Jumper Link; (2) blank field mean open.

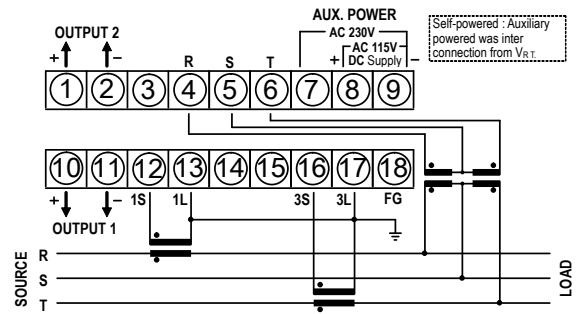
SURFACE MOUNTING HOLES



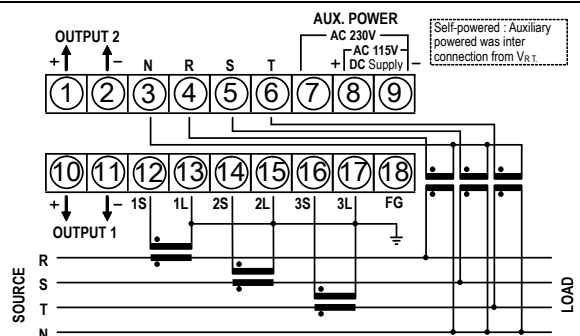
Watt / Var / Watt & Var - 1Φ2W (Unbalanced Load)



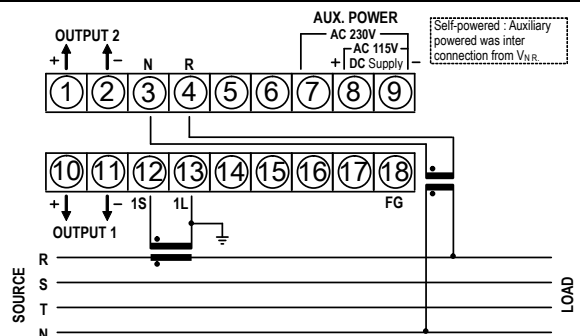
Watt / Var / Watt & Var - 3Φ3W (Unbalanced)



Watt / Var / Watt & Var - 3Φ3W (balanced)



Watt / Var / Watt & Var - 3Φ4W (balanced)



DIMENSIONS

