

TECHNICAL DATA SHEET FOR D5 PTW1 ACTIVE POWER TRANSDUCER



Introduction:

- *Active Power Transducer
- *Input 3-phase voltage & current
- *Output Single or Dual (DC)
- *Accuracy 0.5%

Operations:

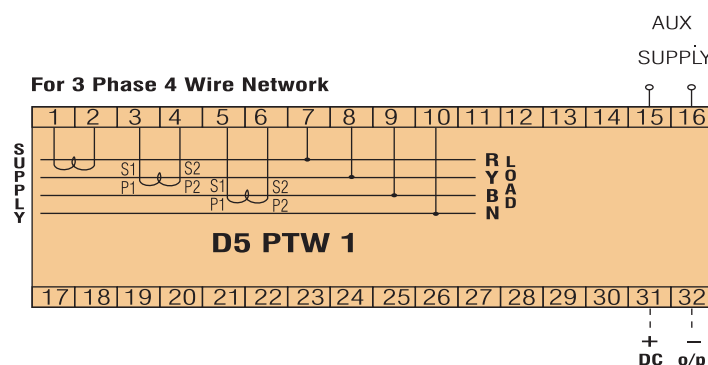
The input voltage and current signals are scaled down through interposing Potential and current transformer. In case of reactive transducers the voltage signals

Are 90 deg. C. Phase shifted. The scaled down signals are fed to precision multipliers working on time division multiplication principle. The multiplier output is processed to provide DC Voltage / Current output signal proportional to input active / reactive power. For Signal phase network as well as for 3 phase 3 wire or 3 phase 4 wire electrical networks Active Power Transducer is offered for balanced as well as unbalanced load conditions.

APPLICATION:

- *Control & Relay Panel
- *Metering Panels
- *Motor Testing Equipments
- *Transformer Panels
- *Cogeneration /Captive Power Plants
- *Paper Mills, Sugar Plant

minilec[®]



TECHNICAL SPECIFICATIONS:

1. Auxiliary supply voltage	24/48VDC \pm 20%, Self Powered, 80-300VAC / DC 110 V AC/DC, 50Hz
2. Power Consumption	3.5 VA-AC, 4VA-DC
3. Input Value I in V in	1A/5A 110/415V
4. DC output (Single / Dual)	0-1, 0-5, 0-10, 0-20mA DC, 4-20mA DC, 0-(\pm)5, 0-(\pm)10, 0-(\pm)mA DC, 0-5, 0-10 VDC
5. No of Signal output	Single (Optional Dual output)
6. Response Time	Less than 500 milliseconds
7. Input / Output Isolation	Galvanic
8. Temperature	0 deg. C. To +55 deg. C.
9. Humidity	Up to 95% RH Non-condensing
10. Dimensions (L x W x D)	150 x 70 x 114
11. Weight	1200 gms.

COMMON SPECIFICATIONS:

Output Load Resistance (Rout) For Current Output For Voltage Output	Max. 10V/I out (optional Max. 15V/Iout) 100 Kohm (min.)
Output Ripple	Less than 0.5% of Span (peak to peak)
Auxiliary Supply Burden	Less than 4VA
Insulation Resistance	More than 100 Mohms at 500 V DC
Zero Span Adjustment	Optionally provided
Terminals	Suitable for 2.5 sq.mm wires
Enclosure Type	ABC Plastic, Ingress Protection IP40