AC VOLTAGE TRANSDUCERS

SCREW MOUNT METAL CASE A

ABS DIN RAIL MOUNT CASE D

SCREW MOUNT METAL CASE B

MODELS OFFERED

TV-1: 1 Phase, Average sensing

TV-1T: 1 Phase, True rms sensing

TV-3: 3 Phase, Average sensing

TV-3T: 3 Phase, True rms sensing

- True RMS sensing is recommended for input signals with distortion.
- Direct connect to the transducer for inputs ≤ 600V AC.
- Connect using a Potential Transformer (P.T.) for inputs > 600V AC.

FEATURES

- **High accuracy ±0.2% of Rated Output (R.O.)**
- **Super high accuracy ±0.1% of Rated Output (R.O.) available as a special order.***
- **High immunity to external noise.**
- **Quick and easy mounting to 35mm DIN Rail (DIN46277)**
- **Many input and output signal combinations**

GENERAL SPECIFICATIONS

Accuracy	± 0.2% R.O. Standard for 10 to 100% of rated output
	± 0.1% R.O. (Special Option)
Temp. coefficient	≤100ppm/°C of span
	≤60ppm/°C for ambient temperature of 25°C ±10°C
Temp. range	Storage temperature range -20°C to 60°C (-4°F to 140°F)
	Operating temperature range 0°C to 50°C (32°F to 122°F)
Humidity range	Up to 95% RH non condensing
Isolation	Between Input/Output/Power/Case
Dielectric test	DIN-IEC 688
	2K Vrms/1 min, Between terminal to terminal
	2.8K Vrms/1 min, Between terminal to case
Surge test	DIN-IEC 255-4, ANSI C37 90a/1974 5KV(1.2x50 μs)
Insulation Resistance	Greater than 100 M Ω at 500V DC
Housing material	ABS Resin(94V-0) or metal
Mounting	Screw mount on metal case or Plastic case DIN Rail 35mm
Auxiliary Power	AC 115/230V ± 15%, 50/60Hz, 3VA
	DC 24V ± 20%(optional)
	125V DC ± 20%(optional)

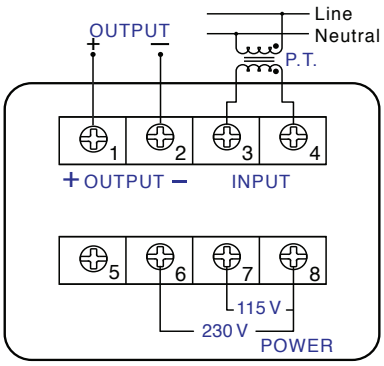
INPUT SPECIFICATIONS

AC Input..... 0 to 150V AC, 0 to 300V AC, 0 to 600V AC or custom input
Frequency ..... 45Hz to 65Hz or 400Hz
Burden..... ≤0.1VA
Response Sensitivity..... ≤0.5% of measuring range to mazimum input range
Input Overload Capacity.... 1.25 times the rated input voltage continuously.
2 times the rated voltage for 10 seconds.
4 times the rated input voltage for 5 seconds.
Or 600V AC rms continuous.(absolute maximum)

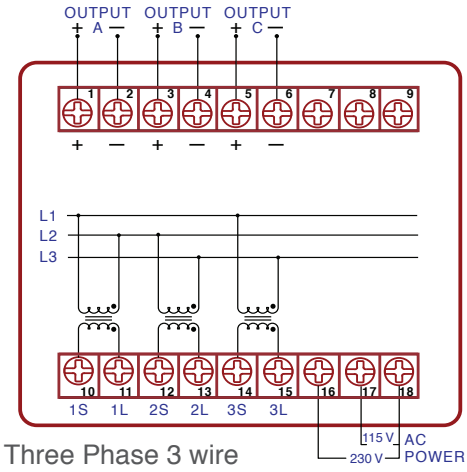
OUTPUT SPECIFICATIONS

Output Variables..... DC mA or DC Volts
Ripple..... < 0.5% of rated output. Peak to Peak (maximum)
Response Time..... < 400 milliseconds to go from 0 to 99% of output
Zero Adjustment..... ± 5% of rated output minimum
Span Adjustment..... ± 10% of rated output minimum
Load Resistance..... 10K Ω maximum for 0 to 1mA output
500 Ω maximum for 4 to 20mA output
500 Ω minimum for 0 to 10V output

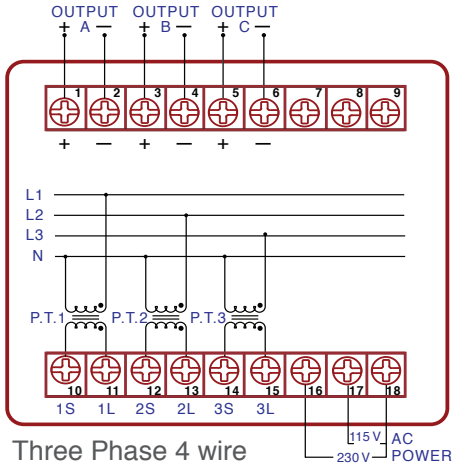
CONNECTION DIAGRAM



TV-1/TV-1T



Three Phase 3 wire



Three Phase 4 wire