

The TX-USB configuration kit is for configuring/programming Head and DIN rail mounting transmitters (pages 83-85), and the universal indicator. A USB module, interface cable (75cm), USB extension cable (100cm) and head mounting adaptor is supplied with the kit. The latest version of software can be downloaded for free from our website*.

Once the software has been installed simply connect the interface lead to the transmitter and the USB interface will provide the necessary power. The software allows you to program the transmitter to suit your application requirements. Parameters include:

- Input (selectable between RTD and Thermocouple Types)
- Temperature Range (°C or °F)
- Upscale or Downscale drive
- Zero Adjustment (for calibration)

The software also displays the wiring configuration for the transmitter connected to assist with installation and operation. It will also check for errors and perform a test once the configuration is completed and display a trend graph of the input and output. Setup profiles can be saved for auto/repeat programming at a later date.

* View software compatibility information and download free from: www.thermosense.co.uk/downloads



Interface Cable



USB Extension Cable



Head mounting adaptor

order code TX-USB

POW-24V DIN Rail Mounting 24V Power Supply

The POW-24V power supply is designed differently from a general purpose power supply. Emphasis is placed on withstanding and rejecting EMI events, such as transients associated with close-by unsnubbed contactors etc. This is achieved by:

- Second and third stage filtering in both common and normal mode configurations
- Constructing the transformer with inherent shielding to reject unwanted signals

This combination of techniques eliminates the need for a Y cap between the primary and secondary, increasing the impedance to high frequency transients by an order of magnitude or more.



Technical Details

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|--------------------------------|--|
| Input Voltage Supply | 85-265V AC/DC |
| Output Voltage | 24V DC |
| Output Current | 200mA max |
| Output Ripple | 4mV rms/25mVpp max |
| Load Regulation | < 0.1% |
| Line Regulation | < 0.1% |
| Short Circuit Tolerance | Indefinite |
| EMC Compliance | Emissions: EN55022-A Immunity: EN50082-1 Safety: EN60950 |
| Mains Isolation | 250V AC |

Technical Details (continued)

| | |
|--------------------------------|---|
| Isolation Test Voltages | Mains to output: 3000V AC, 50Hz Mains to earth: 1500V AC, 50Hz |
| Ambient Drift | ≤ ±0.01%/°C FSO typical |
| RF Immunity | < 1% effect FSO typical |
| Temperature | Operating: 0°C to +60°C Storage: -20°C to +80°C |
| Operating Humidity | 5-85% RH max |
| Dimensions | 30mm (W) x 79mm (H) x 70mm (D) 35mm DIN rail mount |

order code POW-24V

VOP-100 Over Voltage Protector/Isolator

The VOP-100 over voltage protector/isolator is characterised by its high level of protection, concentrated in a compact space. It is suitable for installing in the narrowest of places, making it ideal for automated process industrial and building service systems.

Two Stage Protection:

- Gas discharge tubes provide the first stage
- Transient voltage suppressors provide the second stage

Technical Details

| | |
|--------------------------------------|--|
| Gas Discharge Tubes | 8x20µs: 5000A. 10x1000µs: 10A. DC spark voltage 60-90V at 100V/s. Impulse spark over voltage <600V at 1kV/µs |
| Transient Voltage Suppressors | 10x1000µs: 600W. Response time <5ns from 0-41V. Stand off voltage 33V typical. |
| Temperature | Operating: 0°C to +60°C; Storage: -20°C to +80°C |
| Operating Humidity | 5-85% RH max |
| EMC Compliance | Emissions: EN55022-A Immunity: EN50082-1 (<1% effect FSO typical) |
| Leakage Current | 10µA at 24V DC |
| Dimensions | 20mm (W) x 79mm (H) x 70mm (D), 35mm DIN rail mount |



35mm DIN rail mount

order code VOP-100