STRAP-ON TEMPERATURE TRANSMITTER WITH LCD

TDSO Series

The single point strap-on temperature transmitter has a precision platinum RTD bonded to a 38.1 mm x 38.1 mm (1.5” x 1.5”) aluminum plate and adhered to a 25.4 mm (1“) compressible foam. A 25.4 cm (10”) S/S Pipe clamp is provided to secure the assembly to various sizes of pipes. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. A hinged and gasketed Polycarbonate enclosure with a hinged and gasketed cover is provided for ease of installation. An LCD is provided in either °C or °F.

PRODUCT HIGHLIGHTS

* Compact form factor enclosure with soft close cover
* IP 65 Enclosure
* Slotted mounting holes angled for ease of field installation
* Custom branding available
* Multiple mounting options

SPECIFICATIONS

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| **SPECIFICATIONS** |  |
| **SENSOR TYPE** | 1000 Ω platinum RTD |
| **SENSOR ACCURACY** | ±0.3°C (±0.54°F) @ 0°C (32°F) |
| **PROBE SENSING RANGE** | -20 to 105°C (-4 to 221°F) |
| **PROBE MATERIAL** | Aluminum plate |
| **PROBE DIMENSIONS** | 38.5mm (1.5”) square |
| **WIRE MATERIAL** | PVC insulated, parallel bonded, 22 AWG |
| **OUTPUT SIGNAL** | 4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured) |
| **TRANSMITTER ACCURACY** | ±0.2% of span, including linearity |
| **POWER SUPPLY** | 15-30 Vdc or 12-28 Vac |
| **CONSUMPTION (MAX)** | **Current:** 20 mA  **Voltage:** 11 mA |
| **MAXIMUM LOOP CURRENT** | 20 mA |
| **MINIMUM LOOP CURRENT** | 4 mA |
| **MAXIMUM LOOP LOAD** | 700Ω |
| **MAXIMUM CURRENT (VOLTAGE)** | 11 mA |
| **MAXIMUM OUTPUT (VOLTAGE)** | 10 Vdc |
| **INPUT VOLTAGE EFFECT** | Negligible over specified operating range |
| **PROTECTION CIRCUITRY** | Reverse voltage protected and output limited |
| **OUTPUT DRIVE @ 24 VDC** | **Current:** 700Ω max  **Voltage:** 20,000Ω min |
| **LCD DISPLAY UNITS** | °C or °F (factory configured) |
| **DISPLAY RANGE** | 3 digit for -88.8 to 888 as required |
| **DISPLAY SIZE** | 38.1mm W x 16.5mm H (1.5” x 0.65”) |
| **DIGIT HEIGHT** | 11.4mm (0.45”) plus °C/°F symbol |
| **AMBIENT OPERATING RANGE** | 0 to 50°C (32 to 122°F), 0 to 95 %RH |
| **ENCLOSURE** | **B:** Grey polycarbonate UL94-V0, IP65 (NEMA 4X)  **F:** Same as B with thread adapter (1/2” NPT to M16) and cable gland fitting |
| **WIRING CONNECTIONS** | Screw terminal block (14 to 22 AWG) |
| **COUNTRY OF ORIGIN** | **Canada** |