STRAP-ON TEMPERATURE TRANSMITTER WITH LCD

TDSO Series

The single point strap-on temperature transmitter has a precision platinum RTD bonded to a 38.[illegible] 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 [illegible] 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

GREYSTONE
ENERGY SYSTEMS INC

SPECIFICATIONS

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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**