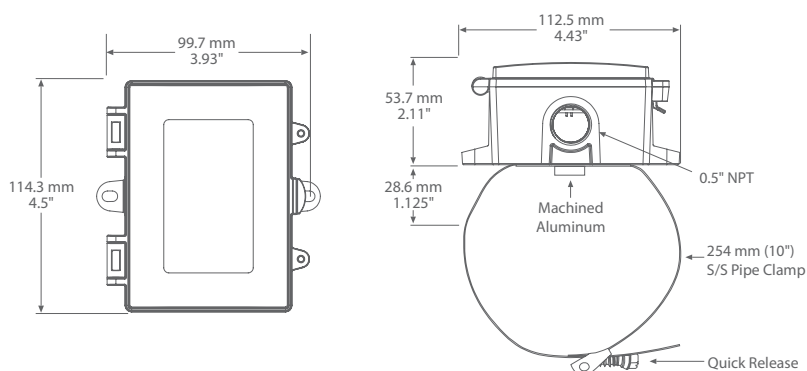


STRAP-ON TEMPERATURE TRANSMITTER WITH LCD



TDSO SERIES

PRODUCT DESCRIPTION

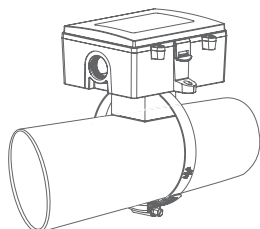
The single point strap-on temperature transmitter has a precision platinum RTD encapsulated in a 38.1 mm x 12.7 mm (1.5" x 0.5") machined aluminum heat sink. A 25.4 cm (10") S/S Pipe clamp is provided to secure the assembly to various sizes of pipes. All probes are constructed to provide excellent heat 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.

TYPICAL INSTALLATION

For complete installation and wiring details, please refer to the product installation instructions.

For best results, thermal conductive compound should be applied to pipe prior to mounting the probe.

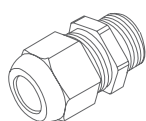
Find a suitable location along the pipe where both the probe and remote enclosure can be mounted. If necessary, remove a section of insulation from pipe. Position probe directly on the pipe and secure using a pipe clamp. For added security, make 1 to 3 loops of the sensor cable around the pipe and feed through wire hole on the enclosure and secure using the supplied grommet. If applicable, the pipe insulation can be re-applied to the pipe over the probe.



SPECIFICATIONS

SENSOR TYPE	1000 Ω platinum RTD
SENSOR ACCURACY	±0.3°C (±0.54°F) @ 0°C (32°F)
PROBE SENSING RANGE	-40 to 100°C (-40 to 212°F)
PROBE MATERIAL	Machined aluminum heat sink
PROBE DIMENSIONS	38.1mm x 12.7mm (1.5" x 0.5")
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
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 Negative to Positive Range (-88 to 88) Positive Range <100 (88.8), >100 (888)
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

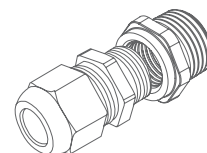
ACCESSORIES - INCLUDED WITH F ENCLOSURE OPTION



CABLE GLAND FITTING

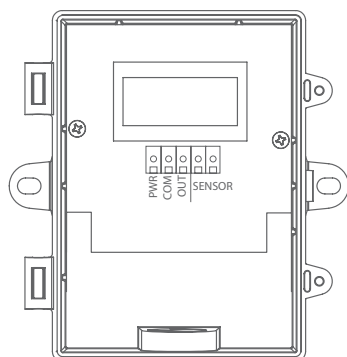


THREAD ADAPTER 1/2" NPT TO M16





WIRING INFORMATION



TERMINAL

FUNCTION

PWR
COM
OUT

+24 Vdc/ac power supply
Common
Analog output

SENSOR
SENSOR

Temperature sensor input
Temperature sensor input

ORDERING

PRODUCT	TDSO	Strap-on Temperature Transmitter with Display
ENCLOSURE	B	Polycarbonate, with hinged and gasketed cover
	F	Same as B, with thread adapter and cable gland fitting
DISPLAY UNITS	C	Celsius
	F	Fahrenheit
SENSOR	12X	1000Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film, Class B
OUTPUT	A	4-20 mA, 2 or 3 wire
	D	0-5 Vdc, 3 wire
	E	0-10 Vdc, 3 wire
SCALED RANGE	001	0 to 35°C (32 to 95°F)
	002	0 to 50°C (32 to 122°F)

NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

PART NUMBER

TDSO