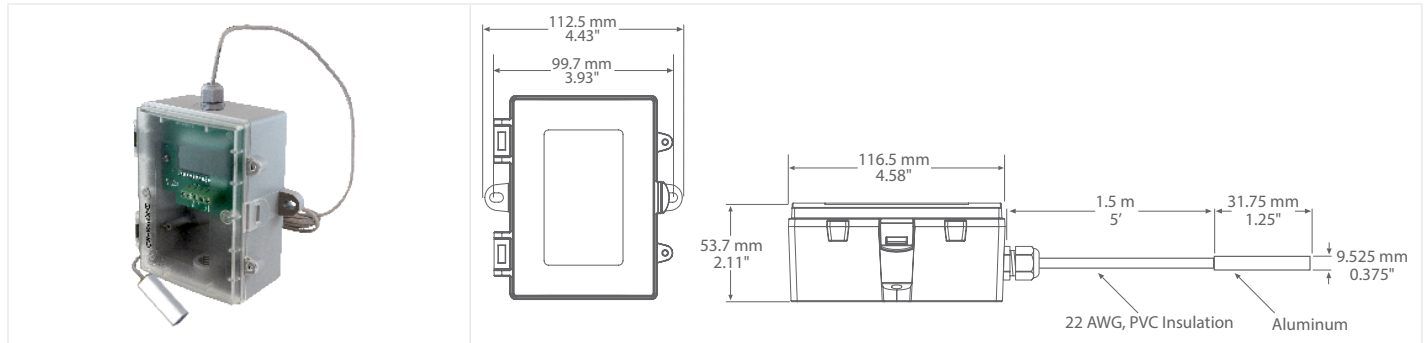




GLASS TEMPERATURE TRANSMITTER WITH LCD



TDGL SERIES

PRODUCT DESCRIPTION

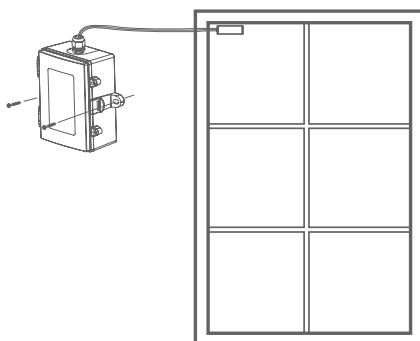
The single point glass temperature sensor utilizes a precision sensor encapsulated in a 31.75mm L x 9.525mm W x 9.525 mm H (1.25" x .375" x .375") Aluminum probe. Standard wire length is 1.5 m (5'). The probe is constructed to provide excellent heat transfer, fast response and is potted to resist moisture penetration. The transmitter provides a high accuracy signal with excellent long term stability, low hysteresis and fast response and is available with various ranges. A hinged and gasketed Polycarbonate enclosure is included 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.

Find a suitable location on an exterior window where both the probe and enclosure can be mounted. On one side apply epoxy compound and press firmly against the glass. Hold in place until the epoxy has set.

Enclosure provides mounting tabs for ease of installation.



SPECIFICATIONS

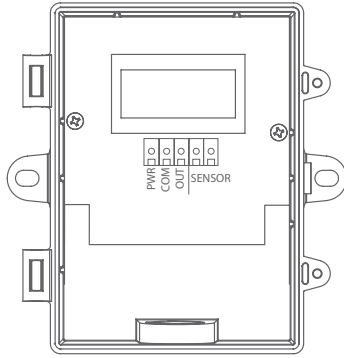
SENSOR TYPE	1000 Ω platinum RTD
SENSOR ACCURACY	±0.3°C (±0.54°F) @ 0°C (32°F)
PROBE SENSING RANGE	-40 to 100°C (-40 to 212°F)
PROBE DIMENSIONS	31.75mm L x 9.525mm H x 9.525mm W (1.25" x 0.375" x 0.375")
PROBE MATERIAL	Aluminum wafer
WIRE MATERIAL	PVC insulated, parallel bonded, 22 AWG
WIRE LENGTH	1.5m (5')
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
RESOLUTION	01°C/°F
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), 5 to 95 %RH non-condensing
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





WIRING INFORMATION



TERMINAL	FUNCTION
PWR	+24 Vdc/ac power supply
COM	Common
OUT	Analog output
SENSOR	Temperature sensor input
SENSOR	Temperature sensor input

ORDERING

PRODUCT	TDGL	Glass 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)

PART NUMBER

TDGL

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