TEMPERATURE TRANSMITTERS C/W LCD DISPLAY TE511/512 Series

Precision temperature control/sensing

FEATURES:

S

Σ

ш

S

>

S

≻ ש

Ш

Ζ

- Precision RTD sensing element
- Choice of scaled ranges and outputs
- LCD available in either °C or °F
- Hinged ABS weatherproof enclosure



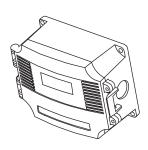
Peace of mind through reliable temperature monitoring

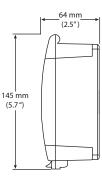
GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

SPECIFICATIONS:

	Sensor	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
	Sensor Accuracy	±0.3°C (±0.54°F) @ 0°C (32°F)
7	Transmitter Output Signal	4-20mA current loop, 0-5 vdc, or 0-10 Vdc (factory configured)
	Transmitter Accuracy	±0.1% of span, including linearity
	4-20 mA loop Power Supply	15-35 Vdc or 22-32 Vac
	Minimum Loop Current	2 mA nominal (occurs with shorted sensor)
	Maximum Loop Current	22.5 mA nominal (occurs with open sensor)
	Maximum Loop Load	>600 ohms
	0-5 Vdc Power Supply	10-35 vdc or 10-32 Vac
	0-10 Vdc Power Supply	15-35 Vdc or 15-32 Vac
	Maximum Current (Voltage)	5 mA nominal
	Maximum Output (Voltage)	Limited to <5.5 Vdc for 0-5 Vdc, <10.5 for 0-10 vdc
	Input Voltage Effect	Negligible over specified operating range
	RFI rejection	Good RFI rejection of normal frequencies with standard installation
	Protection Circuitry	Reverse voltage protected and output limited
	Probe Sensing Range	B, C, E, ES & G: -20 - 105°C (-4 - 221°F)
		D, DR & FD: -20 - 60°C (-4 - 140°F)
		DC : -40 - 100°C (-40 - 212°F)
		F: 0 - 70°C (32 - 158°F)
	Ambient Operating Range	0 - 70°C (32 - 158°F)
	Operating Humidity	0-95% RH non-condensing
	Probe Material	B, C, DR, E, & FL: 6.35 mm (0.25") O.D., 304 series stainless steel
		D & DC: 7.94 mm (0.3125") O.D. soft copper
_		FD: FT-6 rated plenum cable
		ES: 2" x 2" aluminum plate
		G: 0.5″ x 0.5″ x 2″ aluminum wafer
	Wire Material	B, C, DR, E, ES & G: PVC insulated, parallel bonded, 22 AWG
		D, FD & FL: FT-6 rated plenum cable, 22 AWG
		DC: PTFE insulated, 22 AWG
	Wiring Connections	Screw terminal block (14 to 22 AWG)
	Enclosure	Hinged Weatherproof - ABS - UL94-5VB - IP65 (NEMA 4X)
	Display Units	°C or °F (factory configured)
	Display Range	3 Digit for -88.8 to 888 as necessary
	Display Size	24 mm x 11 mm (0.95" x 0.45"), three digit.
		-

ENCLOSURE DIMENSIONS:

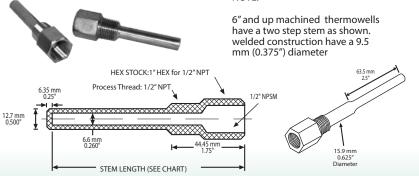




114.3 mm (4.5") Ó 0 . 88.9 mm (3.5″) 100 mm (3.95")

THERMOWELLS:

NOTE:



THERMOWELL PART NUMBERING SYSTEM

SERIES NUMBER	NPT THREAD SIZE	MATERIAL	STEM LENGTH	CONSTRUCTION
T1	1/2"	P - 304 SS R - 316 SS	2" 4" 6" 8" 12" 18"	- MACHINED W - WELDED (12" and up only)

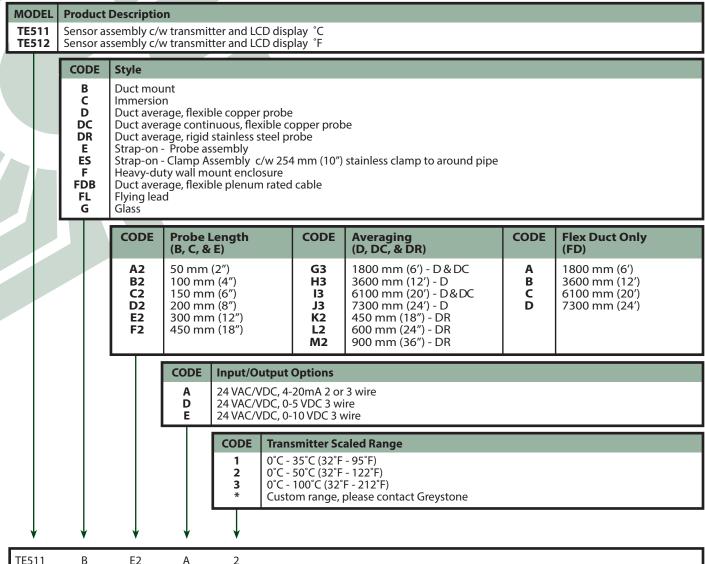
EXAMPLE:

T1 1/2 P 4 4" 304 STAINLESS THERMOWELL WITH 1/2" NPT PROCESS THREAD





PRODUCT ORDERING INFORMATION:



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

ACCESSORIES:



120-*) Thermal Compound – The 120- Thermal Conducting Compound is a zinc oxide-filled, dielectric, silicone oil-based compound that facilitates heat transfer by filling voids and gaps between mating surfaces. The operating temperature range is -40° to 200°C (-40° to 392°F). It is available in a 5 oz tube or 2 & 8 oz jars.



DC-01) Duct collar - The DC-01 is an adjustable collar for mounting the duct temperature sensor probes. it incorporates a foam backed mounting flange with 2 mounting holes. A compression type fitting accomodates a 1/4" probe and allows for an adjustable probe depth.



TS17R-*) Probe clamp – The TS17R-* is a zinc plated, rubber coated tube clamp that can be used to secure a temperature probe. It is available in several sizes to fit a wide variety of probes.



CC-1G) Averaging probe clip – The CC-1G is used to mount averaging sensors in duct applications. It can be used for probe diameters of 1/8",1/4" and 3/8". The bracket provides support and a smooth arc for direction reversal allowing for criss-crossing the duct. It eliminates kinking of the sensor and damaging the probe.

A fixed 1/4" probe may also be mounted as part of the bracket design using the scored break-off. It is made out of tough UL94V Nylon and limits heat/cold conduction to the probe and has multiple mounting holes to make mounting quick and easy.







FEATURES:

The TE511/512 series temperature transmitters offer a platinum RTD's with transmitter which can be interfaced with a computerized monitoring or control system. Each model incorporates a LCD in either °C or °F. A wide variety of configurations are available such as:

B) Duct Sensor – The B is for single point monitoring. It comes with a stainless steel probe which is available with various probe lengths.

B)

C) Immersion Sensor - The C comes in two configurations. It has either spring loaded or non-spring loaded probes and has a 1/2" NPT fitting to be mounted into a thermowell. It is available in various lengths.



FD, D, DC & DR) Duct Averaging Sensor - The D, DR & FD models incorporate numerous sensors along the assembly and act as a single sensor averaging the temperature across the sensors. The DC is a continuous sensing element that senses a temperature change allong the entire proble length. They are available in various lengths. The FD probe is constructed of FT-6 rated plenum cable which allows for easy installation. The D & DC probes are constructed of bendable soft copper and the DR is a constructed of rigid stainless steel.



E) & ES) Strap-on Sensor – The E comes with stainless steel probe and is available in several lengths and 1.5 m (5') of zip cable for remote mounting. The ES has an aluminum plate with an expandable 10" clamp assembly to strap directly to a pipe.



F) Heavy Duty Space Sensor – The F comes in a hinged weatherproof ABS enclosure and incorporates a shield to protect the sensor.

E)



FL)

FL) Flying Lead – The FL comes with a 2" stainless steel probe and 1.8 m (6') of FT6 plenum rated cable for remote mounting.

ES)



G) Glass – The sensor is encapsulated in a 1/2" square x 2" aluminum wafer that can be affixed to any surface. It comes with 5' of zip cable.





G)



Greystone Energy Systems, Inc. 150 English Drive, Moncton, New Brunswick, Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014 North America: 1-800-561-5611 e-mail: mail@greystoneenergy.com www.greystoneenergy.com



Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems. We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.