LOW LIMIT THERMOSTAT TL Series



Precision Temperature sensing/control

FEATURES:

- Precision Thermistor
- Various Configurations Available
- Polycarbonate enclosure with hinged and gasketed cover
- Relay Output with Adjustable Setpoint

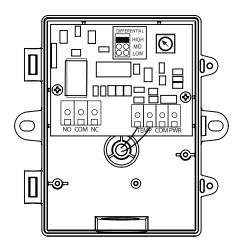


Peace of mind through reliable temperature monitoring

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

SPECIFICATIONS:

Z			
Power Supply	12 to 28 Vac/dc		
Consumption	50 mA max		
Relay Contacts	SPDT, Form C contacts (N.O. and N.C.)		
	5 Amps @ 30 Vdc / 250 Vac resistive		
	1.5 Amps @ 30 Vdc / 250 Vac inductive		
Relay Action	Activates on temperature fall		
Setpoint Operation	Single-turn knob-pot on pcb		
Adjustable Setpoint	4 to 10°C (25 to 50°F)		
Setpoint Temperature	Low/Mid/High jumper selectable Differential 1.1/2.8/5.6°C (2/5/10 °F)		
Temperature Sensor	10K ohm curve matched precision thermistor		
Sensor Accuracy	±0.2°C, 0 to 70°C (±0.36°F, 32 to 158°F)		
Probe Sensing Range	AP, DR, GL, RP, SO : -20 to 105°C (-4 to 221°F)		
	DC, DF, FL : -20 to 60 °C (-4 to 140 °F)		
Probe Material	AP, DR, FL, RP: 304 Series Stainless Steel		
	DC : Soft copper		
	GL: Aluminum		
	SO : Aluminum plate w/ compressible foam backing		
Prohe Dimensions	AP, DR, FL, RP : 6 mm (0.236") Diameter		
1 TODE DITTETISIONS	DC : 7.94 mm (0.3125") Diameter		
	GL : 31.75mm L x 95.25mm W x 9.525mm H (1.25" x 0.375" x 0.375")		
	SO : 38 mm (1.5") square		
Wiro Matorial	AP, DR, GL, OS, RP, SO : PVC insulated, parallel bonded		
wile Material	FL, DC, DF: FT-6 Plenum-rated		
	• •		
	10 to 50°C (14 to 122°F), 5 to 95% RH non-condensing		
	30 to 70°C (-22 to 158°F), 5 to 95% RH, non-condensing		
Enclosure	Grey polycarbonate with hinged and gasketed cover, UL94-V0, IP65 (NEMA 4X)		
Wising Connections	F style includes thread adapter (1/2" NPT to M16) and cable gland fitting		
wiring connections	Screw terminal block (14 to 22 AWG)		



WIRING:

PWR	Power Supply
COM	Power Supply Common
TEMP (2)	Temperature Sensor Input
NO	Relay Output - Normally Open Contact
COM	Relay Common
NC	Relay Output - Normally Closed Contact



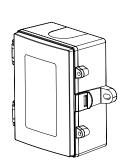


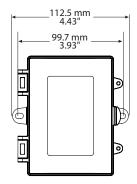


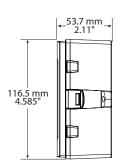


PRODU	PRODUCT ORDERING INFORMATION:								
MODEL	Product I	Description	n						
TL	Thermost								
	CODE	Mountin	g Style						
	AP DC DF DR RP SO OS FL GL	All Purpose Duct/Immersion Duct Average, copper probe Duct Average, flexible cable Duct Average, rigid stainless steel probe Remote Probe - strap-on Strap-On - assembly clamps around pipe with aluminum plate with 254 mm (10") stainless clamp Outside Air Flying Lead Glass							
		CODE	Enclosure						
B Polycarbonate with hinged & gasketed cover F Same as B with thread adapter and cable gland fitting (Not available with OS mo									
			CODE	CODE Display Units					
			24 10,000 Ω, Type 2, NTC Thermistor, ±0.2°C						
				CODE	Probe Length	Lengths are applicable to these mounting styles			
				X A B C D E F G H I J K L	Not applicable 50 mm (2") 100 mm (4") 150 mm (6") 200 mm (8") 300 mm (12") 450 mm (18") 600 mm (24") 900 mm (36") 1800 mm (6') 3600 mm (12') 6100 mm (20') 7300 mm (24') CODE Adjustable Set 01 -4 to 10°C (25 to	-			
TI	▼	▼	▼	*	01				
TL	AP	Α	24	E	01				

ENCLOSURE DIMENSIONS:











TL - PROBE TEMPERATURE SENSOR CONFIGURATIONS

FEATURES:

The TL Series Low Limit Temperature Thermostat combines a precision thermistor and a relay output with adjustable setpoint in wide variety of mounting configurations. The TL series can be interfaced with a computerized monitoring or control system.

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





DC, DF & DR) Duct Averaging Sensor – All models incorporate numerous sensors along the assembly and act as a single sensor averaging the temperature across the sensors. They are available in various lengths. The DF probe is constructed of FT-6 rated plenum cable which allows for easy installation. The DC probe is constructed of bendable soft copper and the DR is a constructed of rigid stainless steel.

DC)



DF)



DR)



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

RP)



SO)



OS (Outside Sensor) – Comes in a weather-proof enclosure which incorporates a sun/windshield to protect the sensor.

OS)



GL) – 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.









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FL) Flying Lead - The sensor is encapsulated in a 2" S/S probe with 6' of FT-6 rated cable and can be used in almost any application where temperature monitoring is required.











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.