Σ

LOW LIMIT TEMPERATURE THERMOSTAT TTL Series



Precision Temperature sensing/control

FEATURES

- Precision Thermistor
- Various Configurations Available
- Selection of Enclosures
- Relay Output with Adjustable Setpoint
- Custom Laser Etching Available



Peace of mind through reliable temperature monitoring

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

SPECIFICATIONS:

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

Sensor Accuracy...... ±0.2°C, 0 to 70°C (±0.36°F, 32 to 158°F)

Probe Sensing Range......BM, CN/CS, DR, GL, RP, SO: -20 to 105°C (-4 to 221)

DC, DF, FL, RN/RS: -20 to 60 °C (-4 to 140 °F)

Probe Material BM, CN/CS, DR, FL, RN/RS, RP: 304 Series Stainless Steel

DC: Soft copper **GL:** Aluminum

SO: Aluminum plate w/ compressible foam backing

Probe Dimensions......CN/CS, DR, BM, FL, RN/RS, RP. 6.35 mm (0.25") Diameter

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") squar

Wire Material......BM, CN/CS, GL, OS, RP, SO: PVC insulated, parallel bonded

FL, DC, DF, RN/RS: FT-6 Plenum-rated

DR: Kynar, PVDF, 28 AWG

Operating Conditions -10 to 50°C (14 to 122 T)

5 to 95% RH non-condensing

Storage Conditions......-30 to 70° (-22 to 158°),

5 to 95% RL, non-condensing

Enclosure......(A) ABS, UL94-5VB, IP67 (NEMA 2)

(D)-ABS, UL94-5VB, IP65 (NEMA 4X)

Wiring Connections...... Screw terminal block

(14 to 22 AWG

WIRING:

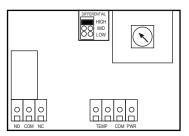
Terminal Function PWR Power Supply

COM Power Supply Common TEMP (2) Temperature Sensor Input

NO Relay Output - Normally Open Contact

COM Relay Common

NC Relay Output - Normally Closed Contact











PRODUCT ORDERING INFORMATION:

MODEL	Product Description		
TTL	Low Limit Temperature Thermostat		

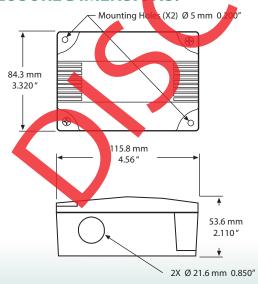
CODI	Mounting Style
BM DC DF DR CN CS RN RS RP SO OS FL GL	Duct average, copper probe Duct average, flexible cable Duct average, rigid stainless steel probe Immersion, Nylon Fitting, 1/2" NPT Immersion, Brass, Spring-loaded Fitting, 1/2" NPT Immersion w/Remote Probe, Nylon Fitting, 1/2" NPT Immersion w/Remote Probe, Spring-loaded Fitting, 1/2" NPT Strap-on - Remote Probe Strap-on - Assembly clamps around pipe with aluminum plate c/w 254 mm (10") stainless clamp O.S.A. Flying lead Glass

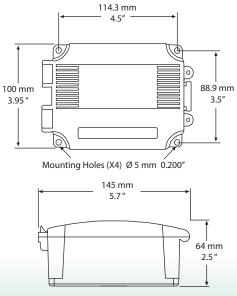
CODE	Enclosure	
A24 D24	ABS enclosure ABS Enclosure, Hinged Cover	

CODE	Probe Length	Lengths are applicable to these Mounting Styles		
A B C	50 mm (2") 100 mm (4") 150 mm (6")	BM, RP, RN, RS, CN & CS BM, RP, RN, RS, CN & CS BM, RP, RN, RS, CN & CS		
D E F G	200 mm (8") 300 mm (12") 450 mm (18") 600 mm (24")	BM, RP, RN, RS, CN & CS BM BM, DR	OMIT FOR	
J H	900 mm (36") 1800 mm (6') 3600 mm (12')	DR DC, DF DC, DF	SO, OS, FL & GL	
K L	6100 mm (20') 7300 mm (24")	DC, DF DC, DF		

CODE	Adjustable Setpoint Range
1	-4°-10°C (25°-50°F)

ENCLOSURE DIMENSIONS:











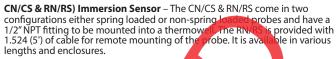


TTL - PROBE TEMPERATURE THERMOSTAT CONFIGURATIONS

FEATURES:

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

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







DF, DC & DR) Duct Averaging Sensor – The DF, DC & DR models incorporate numerous sensors along the assembly an ct as a single sensor averaging the le which allows for easy temperature across the sensors. They are available in various lengths. The DF probe is constructed of 6 rated plenum installation. The DC probes are constructed of bendable soft copper and the DR is a constructed of rigids. nless steel. Va



OS)





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





OS) OSA Sensor – The OS comes in a hinged weatherproof nclosur

and incorporates a sun/wind shield to protect the sense

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. Various enclosures are available.





lass – The sensor is encapsulated in a 1/2" square x 2" aluminum fixed to any surface. It comes with 5' of zip cable and it can be es are available. various er







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.