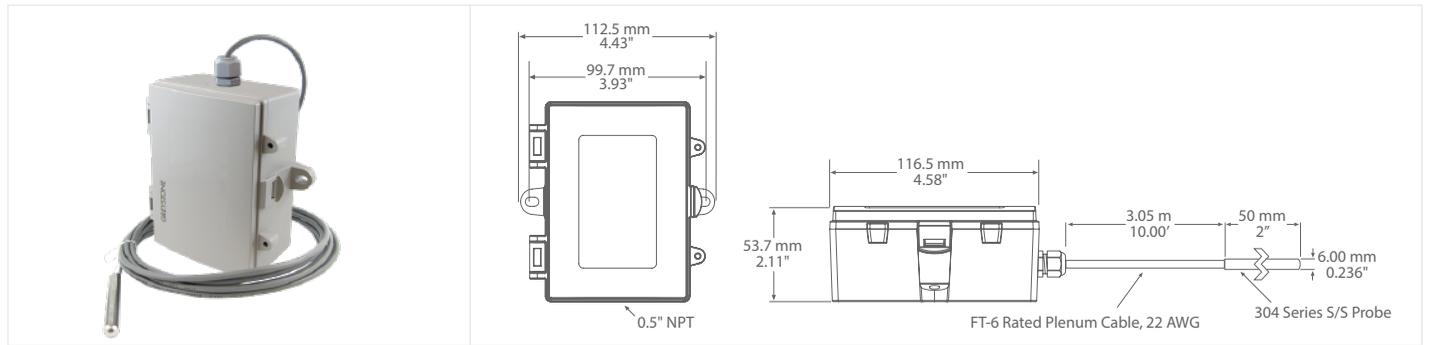




## FLYING LEAD LOW LIMIT THERMOSTAT



### TLFL SERIES

### PRODUCT DESCRIPTION

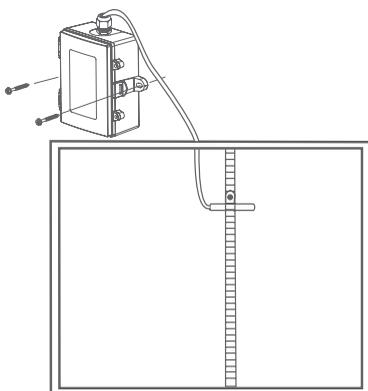
The single point flying lead low limit thermostat incorporates a precision thermistor temperature sensor and provides a Form C relay output (NO/NC) with an adjustable setpoint. The sensor is encapsulated in a 6 mm (0.236") OD X 50 mm (2"), 304 series stainless steel probe. Standard wire length is 3.05m (10'). All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. A hinged and gasketed Polycarbonate enclosure is provided for ease of installation.

### TYPICAL INSTALLATION

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

A typical application for the flying lead type probes is to monitor a single point temperature within the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices. Drill a 3/8" hole in the top of the duct and hang the sensor in the airstream.

The enclosure provides mounting tabs for ease of installation.



### SPECIFICATIONS

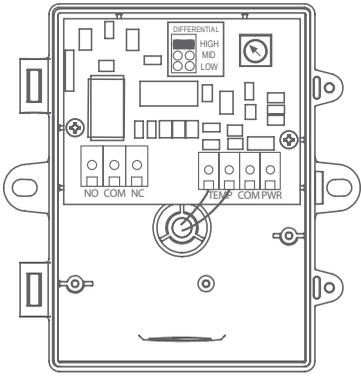
POWER SUPPLY	12 to 28 Vac/dc
SENSOR ACCURACY	±0.2°C, 0 to 70°C (±0.36°F, 32 to 158°F)
PROBE SENSING RANGE	-40 to 60°C (-40 to 140°F)
PROBE MATERIAL	304 series stainless steel
PROBE DIAMETER	6mm (0.236")
WIRE MATERIAL	FT-6 Plenum rated cable
WIRE LENGTH	3.05 m (10')
CONSUMPTION	50 mA max
RELAY CONTACTS	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
SETPPOINT OPERATION	Single-turn knob-pot on PCB
ADJUSTABLE SETPOINT	-4 to 10°C (25 to 50°C)
SETPPOINT TEMPERATURE	<b>Low:</b> 1.1°C (2°F) <b>Mid:</b> 2.8°C (5°F) <b>High:</b> 5.6°C (10°F) Jumper selectable
TEMPERATURE SENSOR	10,000Ω curve matched precision thermistor
AMBIENT OPERATING RANGE	-40 to 50°C (-40 to 122°F), 5 to 95 %RH, non-condensing
STORAGE CONDITIONS	-30 to 70°C (-22 to 158°F), 5 to 95 %RH, non-condensing
WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG)
ENCLOSURE	<b>B:</b> Grey polycarbonate UL94-V0, IP65 (NEMA 4X) <b>F:</b> Same as B with thread adapter (1/2" NPT to M16) and cable gland fitting
COUNTRY OF ORIGIN	Canada

### ACCESSORIES - INCLUDED WITH F ENCLOSURE OPTION





## WIRING INFORMATION

	<table border="1"> <thead> <tr> <th>TERMINAL</th> <th>FUNCTION</th> </tr> </thead> <tbody> <tr> <td>PWR</td> <td>Power Supply</td> </tr> <tr> <td>COM</td> <td>Power Supply Common</td> </tr> <tr> <td>TEMP (2)</td> <td>Temperature Sensor Input</td> </tr> <tr> <td>NO</td> <td>Relay Output - Normally Open Contact</td> </tr> <tr> <td>COM</td> <td>Relay Common</td> </tr> <tr> <td>NC</td> <td>Relay Output - Normally Closed Contact</td> </tr> </tbody> </table>	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
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## ORDERING

PRODUCT	TLFL	Flying Low Limit Thermostat
ENCLOSURE	<b>B</b> <b>F</b>	Polycarbonate, with hinged and gasketed cover Same as B, with thread adapter and cable gland fitting
SENSOR	<b>24X</b>	10,000Ω, Type 2, NTC Thermistor, ±0.2°C
ADJUSTABLE SETPOINT RANGE	<b>01</b>	-4 to 10°C (25 to 50°F)

## PART NUMBER

TLFL

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