

# Remote Mount Temperature Switches

## Series MT1H, T2H

### Features

- ▶ Reliable & accurate
- ▶ Ambient temperature compensated
- ▶ NEMA 4, 13
- ▶ UL, CSA & CE approved
- ▶ Single or dual switching

### Applications

- ▶ Marine & shipbuilding
- ▶ Railroad
- ▶ Oil & gas
- ▶ Medical
- ▶ Compressors
- ▶ Water equipment
- ▶ Process equipment
- ▶ Machine tools and industrial equipment



### General Specifications\*

<b>Accuracy:</b> (Repeatability)	±1% of mid-60% of full range. At constant ambient ±0.5% of full scale. (Knob indication is reference only)
<b>Switch:</b>	One (1) SPDT or two (2) independent SPDT circuits
<b>Electrical Characteristics:</b>	All models incorporate Underwriters' Laboratories, Inc. and CSA listed single pole double throw snap-action switching elements. Switches may be wired normally open or normally closed.
<b>Wetted Parts:</b>	Copper or 304 stainless steel
<b>Electrical Connection:</b>	Single: 3-Pin terminal strip Dual: 6-Pin terminal strip
<b>Electrical Ratings:</b>	AC value at 50% power factor —10 amps @ 125, 250 volts AC, 3 amps @ 480 volts AC. Automatically reset by snap-action of switch.
<b>Enclosure/Housing:</b>	Watertight and dust-tight indoor and outdoor (NEMA 4)/oil-tight and dust-tight indoor (NEMA 13).

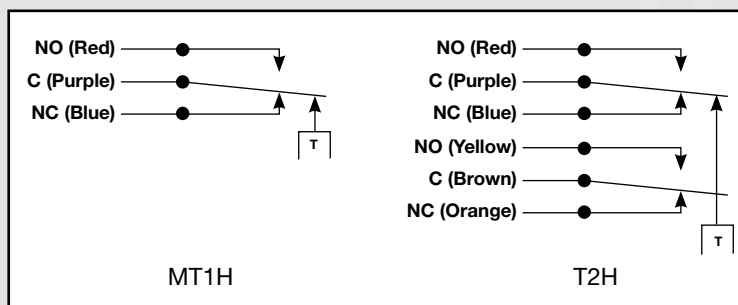
<b>Bulb &amp; Capillary:</b>	6 and 12 foot length standard. See operating characteristics and product configurator.
<b>Approvals:</b>	Underwriters' Laboratories, Inc. and Canadian Standard Assoc. are listed under temperature indicating and regulating equipment.
UL:	File No. E56247, Guide No. XAPX
CSA:	File No. LR34555, Guide 400-E-O Class 4813
<b>Temperature Range:</b>	See product configurator
<b>Adjustment:</b>	Tamper resistant external adjustment. Turn knob clockwise to increase setpoint. (Knob indication is reference only)
<b>Weight:</b>	Single: approximate 1.5 lbs. Dual: approximate 3.0 lbs.

\* See Product Configurator for additional options.

### Wiring Code

Lead	Circuit #1	Circuit #2
Normally Closed	Blue	Orange
Common	Purple	Brown
Normally Open	Red	Yellow

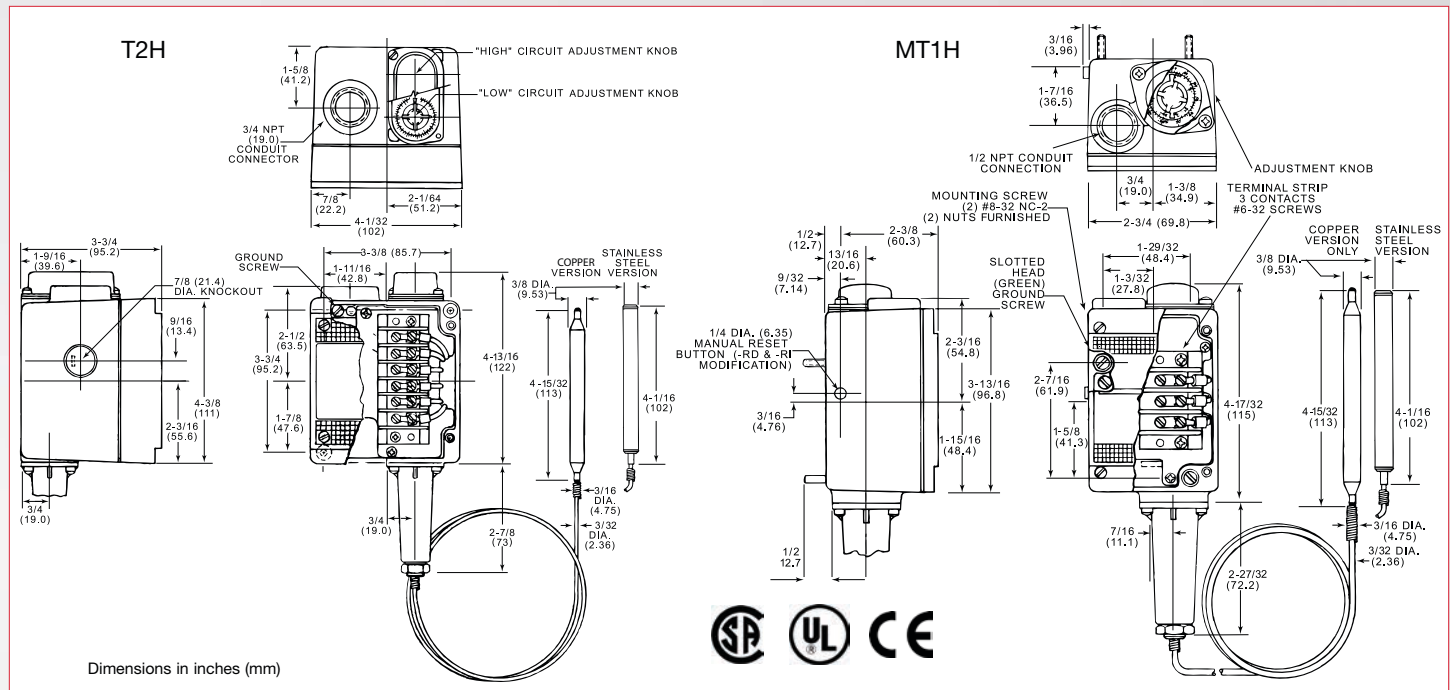
### Wiring Diagram



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## Technical Drawing



## Product Configurator

Example H M T1 H -HH 154 S -12 -A -FX

**H** Hermetically sealed limit switch option - Class I, Division II (requires AA, CC, GH or HH limit switch, 60°C Ta max.)  
**Blank** Standard

**M** Single set point switch models  
**Blank** Dual switch models

## Switch

**T1** Single SPDT  
**T2** Dual switch 2 independent SPDT

## Enclosure

**H** NEMA 4 enclosure

## NOTES:

<sup>1</sup> Changing limit switch will effect dead band; See sales drawing.

<sup>2</sup> Use G limit switch for single set point models that need this option. When selecting the manual reset option on dual setting switches (T2H), the manual reset limit switch will be on the high circuit. The low circuit limit switch must be specified by the customer.

<sup>3</sup> Add 'S' wetted material. FX models require stainless steel capillaries. Consult factory; minimum quantities required.

<sup>4</sup> Add 'S' wetted material adder and 'A' armor adder to this. Capillary length '25' requires stainless steel capillary and armor.

Limit Switch <sup>1</sup>

-H	10 amps @ 125/250 VAC; 3 amp @ 480 VAC (standard)
-B	10 amps @ 125/250/480 VAC; 2 amps @ 600 VAC; 0.05 amps @ 125 VDC; 0.03 amps @ 250 VDC
-G <sup>2</sup>	10 amps @ 125/250/480 VAC; 2 amps @ 600 VAC; 0.4 amps @ 125 VDC; MANUAL RESET
-J	10 amps @ 125/250 VAC; 3 amps @ 480 VAC (with elastomer boot)
-L	15 amps @ 125/250/480 VAC; 0.03 amps @ 125 VDC; 0.02 amps @ 250 VDC
-M	10 amps @ 125/250 VAC; 3 amp @ 480 VAC; 0.5 amps @ 125 VDC; 0.25 amps @ 250 VDC
-S	15 amps @ 125/250/480 VAC; 0.05 amps @ 125 VDC; Adjustable differential
-GH	1 amp @ 125VAC; gold contacts
-AA	Hermetically sealed; 4 amps @ 125/250 VAC
-CC	Hermetically sealed; 10 amps @ 125/250 VAC
-HH	Hermetically sealed; 5 amps @ 125/250 VAC
-GH	Hermetically sealed; 1 amp @ 125 VAC; gold contacts

## Temperature Range

Range	Adjustable Range				Media Temperature Limit (Proof)				Differential <sup>1</sup> (Approx.) Liquid		
	°F		°C		°F		°C		°F	°C	Calibrated Dial Adjustment
	Low	High	Low	High	Low	High	Low	High			
154	-50	+150	-45	+66	-100	+200	-73	+93	1 to 2	.5 to 1.1	Calibrated 5° Subdivision 200° Span
251	+50	+250	+10	+121	-100	+300	-73	+149	1 to 2	.5 to 1.1	
351	+150	+350	+66	+177	-100	+400	-73	+205	1 to 2	.5 to 1.1	
601	+300	+400	+149	+227	0	+650	-18	+343	2 to 4	1.1 to 2.2	5° Subdivision 140° Span
603	+320	+600	+160	+316	0	+650	-18	+343	2 to 4	1.1 to 2.2	10° Subdivision 280° Span

## Options

-RD <sup>2</sup>	Manual reset
-FX <sup>3</sup>	NEMA 4X enclosure (consult factory)
-SXXX	Factory pre-set (consult factory)

## Armor Options

Blank	Blank if not required
-A	302 stainless steel armor

## Capillary Length

Blank	6 foot capillary
-12	12 foot capillary
-25 <sup>4</sup>	25 foot stainless steel capillary

## Wetted Material

Blank	Copper sensor
S	304 stainless steel