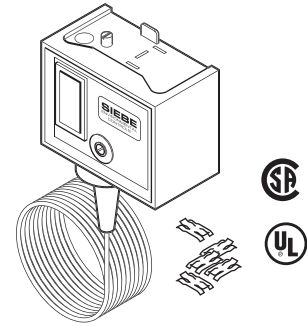


Low Temperature Thermostats

The TC-5231, TC-5232, and TC-5241 low temperature thermostats are used to control temperature in air conditioning or refrigeration systems.

Features:

- 20 ft. (6.1 m) element senses temperature over a large area. Control responds to coldest one-foot section of the sensor.
- Adjustable setpoint from 35 to 60°F (1.7 to 15.5°C) with 5F degrees (3C degrees) fixed differential.
- SPDT and DPST versions.
- Rated for use at 17 full load amps (120/208/240 Vac), 24 non-inductive amps (120/208/240 Vac), and 16 non-inductive amps (24 Vac). Capable of controlling refrigeration and equipment directly.
- Capillary clips provided.



Model Chart

Model No.	Device Type	Electrical Switch	Voltage Vac	Full Load Amps	Locked Rotor Amps	Pilot Duty (VA)	Non-Inductive Amps
TC-5231	Low temp auto reset	SPDT ^a	24 ^b	—	—	100	16
			120	17	102	720	24
			208				
			240 ^c				
TC-5232	Low temp auto reset	DPST ^d	24 ^b	—	—	100	16
			120	24	144	125	24
			208				
			240 ^c				
TC-5241	Low temp manual reset ^e	SPDT ^a	24 ^b	—	—	100	16
			120	17	102	720	24
			208				
			240 ^c				
			277	—	—	—	7.2

^a Do not exceed pilot duty rating on one side of switch.

^b Less than 0.5 Amp is not recommended.

^c Full load and locked rotor ratings are suitable for hermetic compressors only.

^d Limit two separate circuit loads with common return to <5885 VA. Only one load may be a motor load.

^e Reset cannot be accomplished until the sensed temperature is at least 5°F above setpoint.

TC-5231 Series, TC-5232, TC-5241 Series

DC Ratings for TX-5232 Only.

Volts	FLA ^a	LRA ^a	NIA ^a	PD VA ^a
120	4.6	46	3	57.5
240	2.3	23	0.5	57.5
600	—	—	—	57.5

- ^a FLA — Full Load Amps.
 LRA — Locked Rotor Amps.
 NIA — Non-Inductive Amps.
 PDVA — Pilot Duty VA.

Specifications

Setpoint dial range	Dual marked 35 to 60°F (1.7 to 15.5°C).
Sensing element	Vapor pressure type, copper construction.
Response	To lowest temperature sensed by any one-foot section of its element. Altitude causes the control to operate approximately 1°F colder per 1000 ft. of elevation.
Differential	5F degrees (3C degrees) fixed.
Electrical switch	Snap action SPDT.
Ratings	Refer to Model Chart.
Connections	Coded screw terminals.
Mounting	In any position on any surface not subject to excessive vibration.
Housing	Molded gray PVC plastic cover with a zinc-plated steel main enclosure with a 1/2 in. conduit opening.
Environment	
Ambient temperature limits	Shipping: -40 to 150°F (-40 to 66°C). Operating: Must be 5°F (3°C) above setpoint to a maximum of 150°F (66°C) at case. Thermal sensing element: 300°F (149°C).
Humidity	Enclosure: 5 to 95% RH, non-condensing. Thermal sensing element: 0 to 100% RH.
Locations	NEMA Type 1.
Dimensions	
Case	2-11/16 H x 3-7/16 W x 1-15/16 D in. (69 x 87 x 50 mm).
Element	3/32 in. O.D. x 20 ft. length (2.4 mm x 6.1 m).
Agency Listings	
UL 873	Underwriters Laboratories Inc. listed (File # E9429 Category Temperature-indicating and Regulating Equipment).
CSA	Certified for use in Canada by Underwriters Laboratories. Canadian standards C22.2 No. 24-93.

Typical Applications

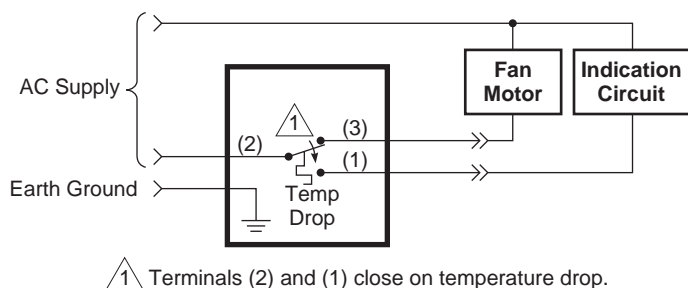


Figure 1 TC-5231 or TC-5241 Switch Action and Terminal Identification.

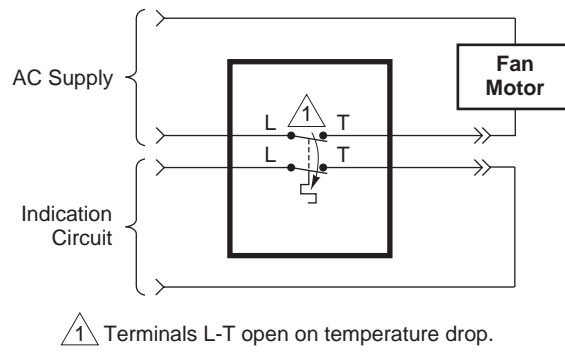


Figure 2 TC-5232 Switch Action and Terminal Identification.