

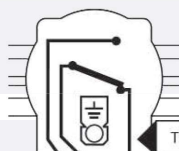
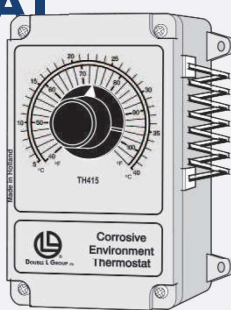


TH415 SINGLE STAGE MECHANICAL THERMOSTAT

Installation Instructions

TH415 THERMOSTAT INSTALLATION

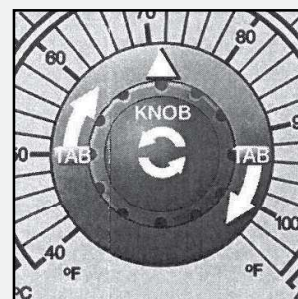
1. Remove the knock-out located on bottom of enclosure; break through the groove in several places with a screwdriver. A moisture proof conduit or cable gland is required.
2. Mount TH415 using flanges on outside of plastic enclosure.
3. Remove cover of enclosure for wiring.
4. Connect wires to appropriate terminals (heating or cooling).
5. Check wiring. Set dial to 40° C (104° F). Connect power supply. Heating unit should come on (or cooling should remain off). Turn dial down to 4° C (40° F). Heating unit should shut off (or cooling turn on) as dial passes current room temperature. Turn dial back to 40° C (104° F). Heating should again turn on (or cooling off).
6. Replace cover.
7. Set dial to desired temperature.



CALIBRATION

Sometimes mechanical thermostats can lose calibration. If this happens, the adjustable knob allows the thermostat to be recalibrated. To recalibrate, follow these steps:

1. Place accurate thermometer next to stainless steel sensor. Allow thermometer to reach room temperature (1/2 hour to be safe) and be sure to keep hands away from sensor to prevent inadvertent heating.
2. Turn dial to 4° C (40° F).
3. Turn dial clockwise and stop when the component clicks. This point is what the thermostat reads as the current room temperature.
4. When the temperature indicated by the thermometer is higher than the temperature indicated by the thermostat, then turn knob position clockwise to endstop and turn with the tabs the white arrow clockwise as far as required. You can do the same when the temperature read from the thermometer is lower, except that you must turn the knob portion and the tabs counterclockwise.
5. To check recalibration, turn dial until a click is heard. The white arrow should point to same temperature as that on the thermometer. If not, repeat steps 2, 3, & 4 until white arrow and click are at the temperature on the thermometer.



Note: A thin coating of petroleum jelly or equivalent should be maintained at the point of contact between the lid of the enclosure and the control knob.

SPECIFICATIONS

Temperature Range	40° - 104° F
Switch	Single SP-DT
Differential	2.5° F / 1.4° C
Sensing Element	Spiral SS
Terminals	4 screw type

Enclosure: Watertight ABS plastic meets NEMA 4x and NEC Article 547-4 requirements (IP54) when used with an appropriate cable gland (not included)

ELECTRICAL RATINGS

Volts / AC 50/60 HZ	120	240
Full Load Amps	12	10
Lock Rotor Amps	48	36
Non-conductive	16	16
Pilot Duty (125 VA)	125	125

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