

DIAGRAMS

FIG 1

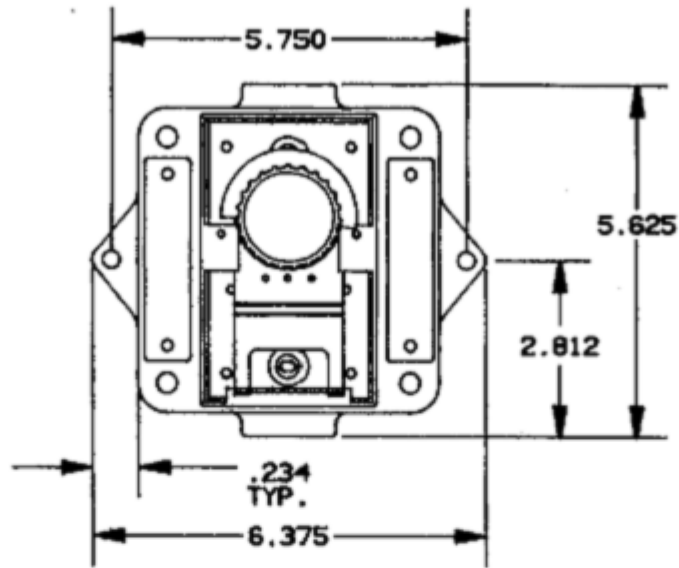
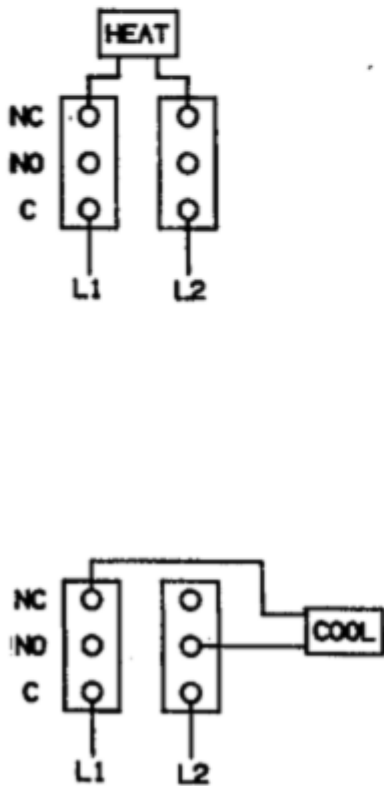
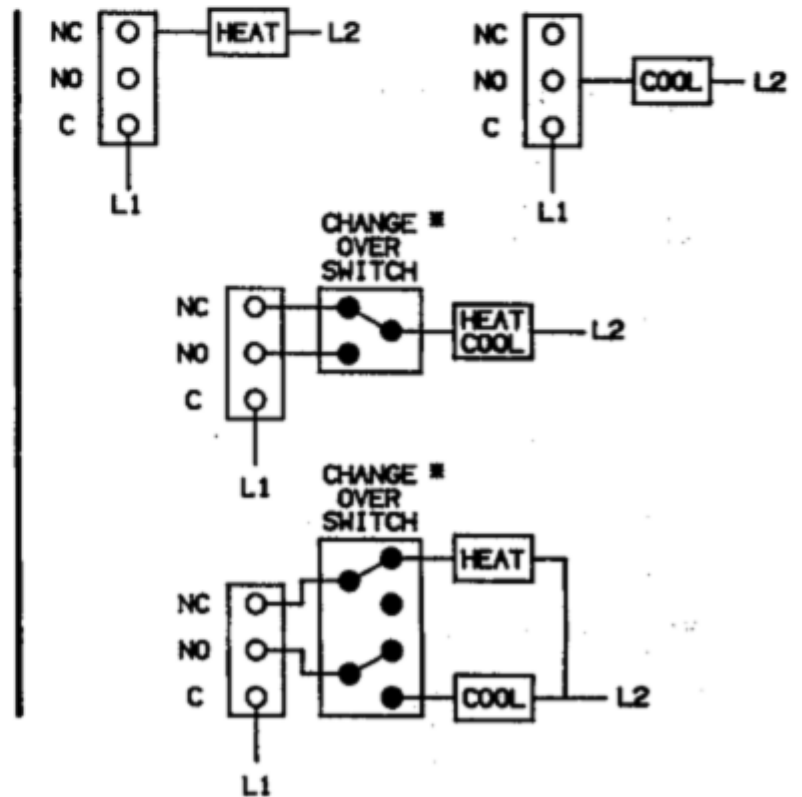


FIG 2 TYPICAL WIRING DIAGRAMS

EP-ETD-8D



EP-ETD-8S



■ TO BE PROVIDED BY INSTALLER

COLUMBUS ELECTRIC MANUFACTURING

OPERATION & INSTALLATION MANUAL

EP-ETD-8D
EP-ETD-8S

DPDT HEAT/COOL
SPDT HEAT/COOL

EXPLOSION PROOF THERMOSTAT

The Columbus Electric Explosion Proof Thermostat is designed to control heating only, cooling only, heating and cool or ventilation systems in oil refineries, grain elevators, munition plants, hospital operating rooms and other hazardous locations.

The switch mechanism is enclosed in a 1/2" thick cast aluminum case which is dust proof and dust resistant. A reliable sensing element provides accurate response to temperature change and does not require leveling during installation.

The casing is tapped top and bottom for 3/4" conduit, a 1/2" adaptor is provided.

SPECIFICATIONS

Electrical Rating: 22 Amp 125-277 VAC
3/4 HP at 125 VAC
1 1/2 HP 250/277 VAC

Dimensions: 5.62" x 6.37" x 4.43"
Approvals: U.L. AND C.S.A.
Class I Groups C & D
Class II Groups E, F, & G

Differential: Heat: 2°F/Cool: 4°F

Temp Set Range: 50°F to 90°F

INSTALLATION

ALL WIRING MUST COMPLY WITH NFPA-70(NEC), LOCAL CODES AND ORDINANCES:

Locate the thermostat approximately five feet (5') above the floor in a location that will sense the average temperature of the area to be controlled. Do not mount the thermostat adjacent to water pipes, in drafty areas, or other locations that would adversely affect the operation of the thermostat.

- 1) Remove the cover of the thermostat and set it aside. Exercise care not to mar the mating surface or damage the temperature sensing/operating components. CAUTION: Marring of the mating surfaces of the enclosure could destroy the integrity of the seal causing an unsafe condition during operation of the thermostat.
- 2) Mount the thermostat base on the surface selected. See Fig. 1 for dimensions.
- 3) The base is tapped for 3/4" conduit; a 1/2" conduit adaptor and a 3/4" plug is provided. Two openings are provided. Unused openings must be properly plugged, with plugs provided, prior to applying power to the unit.
4. Connect the conduit to the mounted base and place the required wire into the base.
- 5) Connections are to be made to the switch terminals on the cover, see Fig. 2. The cover can then be installed to the base and securely fastened utilizing the four (4) mounting screws. Immediately prior to assembly, inspect the mating surfaces of the cover and enclosure. Do not connect if surfaces are uneven or gaps exist between the cover and enclosure. Install the four (4) cover screws to enclosure and TIGHTEN TO A MINIMUM OF 40 INCH POUNDS.
- 6) The installer must seal each conduit run within 18" of the thermostat enclosure. This seal must be a suitable listed hazardous location fitting.

Product Details

Featuring a reliable sensing element that provides accurate response to temperature change, this Columbus Electric hazardous location line volt mechanical thermostat is designed to control heating and cooling. This explosion proof model is suitable for use in grain elevators, hospital operating rooms, munitions plants, oil refineries, and other hazardous locations.

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Technical Specs

- Item Hazardous Location Line Volt Mechanical Tstat
- Thermostat Switch Type DPDT
- Thermostat Control Range 50 Degrees to 90 Degrees F
- Thermostat Voltage 120 to 277VAC
- Full Load Amps @ 120VAC 15A
- Full Load Amps @ 240VAC 4.5A
- Thermostat Programmable No
- Remote Sensing Capability No
- Thermostat Heating/Cooling Heating/Cooling
- Thermostat Item Line Voltage Mechanical Thermostat
- Remote Sensing Bulb Included No
- Switch Action Open/Close on Rise
- Number of Switches 1
- Differential +/- 3 Degrees F
- Height 5-1/2"
- Width 6-3/8"
- Depth 5-5/8"
- Temp. Sensitivity +/- 4 Degrees F
- Sensor Type Bi-Metal Actuator

- ColorBlack and Gray
- Inductive Amps @ 120V4.5A
- Inductive Amps @ 208V4.5A
- Inductive Amps @ 240V4.5A
- Contact Rating Resistive @ 120V13.80A
- Contact Rating Resistive @ 240V10A
- Pilot Duty Contacts (VA)24 to 277VA
- StandardsCSA/UL Class I Groups C and D, Class II Groups E, F and G, NEMA Class 7 Division 1 Approved