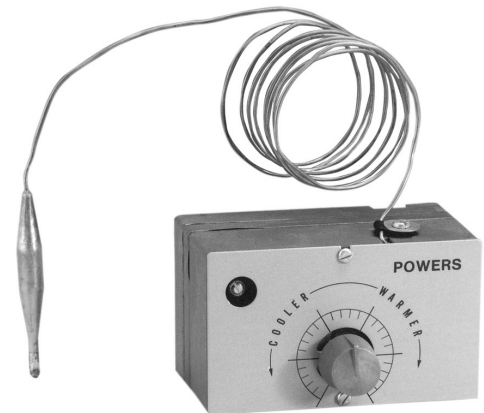


Unit Mounted Thermostats



188 Unit Mounted Thermostat.

Description

The 188 Unit Mounted Thermostat is a gradual acting thermostat with a remote bulb operating on the force-balance principle, using pneumatic feedback to obtain linearity and maintain selected room temperature by positioning pneumatic devices to control heating or cooling.

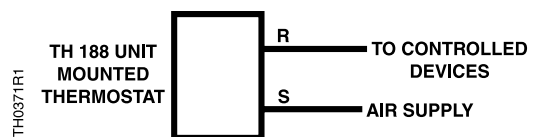
Features

- Liquid-filled thermal system temperature sensing element
- Durable die-cast metal case with rugged setpoint knob
- Adjustable sensitivity
- Universal mounting bracket for easy installation
- Integral adjustable limit stops
- Available as:
 - Direct Acting only (Heating)
 - Reverse Acting only (Cooling)
 - Heat or Cool depending on supply air pressure

Applications

The 188 Unit Mounted Thermostats are designed primarily for use in fan coil induction units and unit ventilators to control the temperature within an occupied space. The thermostat's temperature range is limited to applications at ambient temperatures.

Typical Connections



188 Unit Mounted Thermostat Specifications

Control Action Heating/Cooling, Direct and Reverse;
 Direct only; Reverse only
Operating Range 60 to 85°F (15.5 to 29.4°C)
Operating Pressure 30 psi (207 kPa) max.
Adjustment Sensitivity 1 to 5.25 psi/°F (12 to 65 kPa/°C)
Factory Sensitivity Setting 2.25 psi/°F (28 kPa/°C)
Temperature Response 0.2°F (0.1°C)
Maximum Ambient Temperature
 Case 135°F (57.2°C)
 Bulb 231°F (111°C)
Scale Graduations 1°F (0.55°C)
Nominal Air Supply Pressure
 Direct or Reverse Acting..... 25 psi (172 kPa)
 Heating/Cooling..... 25 psi (172 kPa)/18 psi (124 kPa)

Average Air Usage
 20 scim Restrictor..... 25 scim (6.8 ml/s)
 40 scim Restrictor..... 45 scim (12.2 ml/s)
Air Connections 1/4" (6 mm) Brass barbed for polyethylene tubing
Bulb Size 3/8" Diameter x 3-1/2" L
 (9.5 mm Diameter x 89 mm L)
Capillary Length 48" (121.9 cm) approx.
Finish Corrosion-resistant Zinc Chromate
Dimensions (case)
 Heating/Cooling, Reverse Acting..... 3.1" W x 2.4" H x 2.13" D
 (100 mm W x 61 mm H x 54 mm D)
 Direct Acting 3.1" W x 2.4" H x 1.38" D
 (100 mm W x 61 mm H x 35 mm D)
Shipping Weight 3.0 lb. (1.36 kg)

188 Unit Mounted Thermostat Product Ordering

	Control Action	Changeover Pressure	Average Air Usage	Part No.
Single Setpoint	Direct Acting / 25 psi (172 kPa)	—	40 scim (11 ml/s)	188-0031
Single Setpoint	Reverse Acting (Cooling) 18 psi	—	20 scim (5 ml/s)	188-0024
Heat/Cool	Direct Acting / Reverse Acting (Cooling) 18 psi (124 kPa)	—	40 scim (11 ml/s)	188-0030
Heat/Cool	Retroline Direct Acting/Reverse Acting 18 psi (124 kPa) / 13 psi (90 kPa). Retroline replacement for Honeywell LP916BXXXX .	15 psi (103 kPa)	40 scim (11 ml/s)	188-0033
Heat/Cool	Retroline Direct Acting/Reverse Acting 20 psi (138 kPa) / 15 psi (103 kPa). Retroline replacement for Johnson Controls T-3300-2 .	17 psi (117 kPa)	40 scim (11 ml/s)	188-0034

F-26

Pneumatics

Accessories & Service Kits

F-87