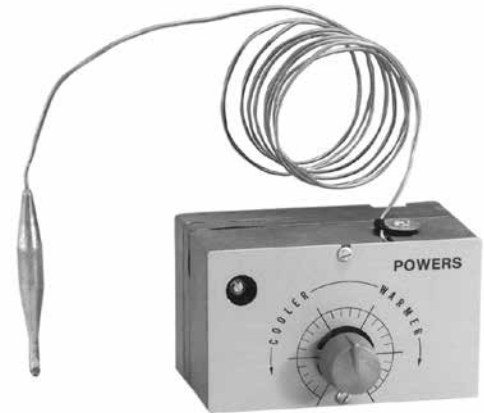


Unit Mounted Thermostats



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.

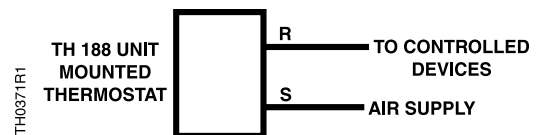
Features

- 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



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)

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) 25 psi (172 kPa)	—	20 scim (5 ml/s)	188-0024
Heat/Cool	Direct Acting (Heating) / Reverse Acting (Cooling) 18 psi (124 kPa)	21 psi (145 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 25 psi (172 kPa) / 15 psi (103 kPa). Retroline replacement for Johnson Controls T-3300-2 .	17 psi (117 kPa)	40 scim (11 ml/s)	188-0034