Temperature Switches, Mechanical

Simple and fast. Applications. Visible, calibrated dial and external adjustments make changing setpoints and long life. Fully adjustable deadband makes units suitable for a wide range of control mechanism used in our Series DA pressure switches. Bourdon tube assures high sensitivity and long life. Fully adjustable deadband makes units suitable for a wide range of control applications. Visible, calibrated dial and external adjustments make changing setpoints simple and fast.

Series DA-7035N temperature switches include the same time-proven switching mechanism used in our Series DA pressure switches. Bourdon tube assures high sensitivity and long life. Fully adjustable deadband makes units suitable for a wide range of control applications. Visible, calibrated dial and external adjustments make changing setpoints simple and fast.

Insertion depth can be increased through use of bulb supports or wells. Consult factory.

The Series 650 Temperature Transmitter combines low cost with small size making it ideal for a wide variety of HVAC, industrial and commercial multi-point temperature monitoring applications. Non-polarized terminals simplify connection to any 12-35 VDC power supply. Capable of operation with long cable runs, Series 650 Transmitters are well suited for monitoring air or water temperatures at remote locations. Three models are stocked in popular ranges factory calibrated within 0.3% of span. All are linear within 0.25% of span and may be recalibrated within low range and span limits shown in chart. Low range is temperature corresponding to 4 mA output. Span is temperature difference between Low and High Ranges corresponding to 4-20 mA output signal.

SPECIFICATIONS

Service: Compatible liquids or gases.

Wetted Materials: Bulb and connection: 304 SS.

Temperature Limit: Process: See model chart; Ambient: 180°F (82°C).

Pressure Limit: 300 psi (20.6 bar).

Enclosure Rating: General purpose. Optional weatherproof and explosion-proof.

Repeatability: ±1% of full scale.

Switch Type: SPDT snap switch. Optional DPDT snap and a variety of mercury switches.

Electrical Rating: 10A @ 120/240/480 VAC.

Electrical Connections: Screw terminal.

Conduit Connection: 7/8” (22.23 mm) hole for 1/2˝ (12.7 mm) conduit hub.

FEATURES

• Adjustable deadband
• Snap action switch standard
• Inert gas activated Bourdon tube
• No cross ambient temperature effects
• No bulb elevation correction required
• Visible dial calibrated in both °F and °C
• Visible on/off indication

SPECIFICATIONS

Input: Silicone-junction transistor.

Output Signal: 4-20 mA DC.

Power Requirements: 12-35 volts DC.

Accuracy: ±0.3% F.S. @ 20°C (68°F).

Linearity: Within 0.25% of span.

Thermal Drift: Less than 0.5% of span over ambient temperature range of 0 to 50°C (32 to 122°F).

Voltage Stability: Output error less than 0.01% of span over the specified supply voltage range.

Probe Construction: 6” long, 0.25” O.D. Type 304 SS.

Temperature Limits (Probe): 204°C (400°F).

Probe Cable Length: 7 ft (2.1 m).

Accessory

A-325, Duct Mounting Kit with flange, fitting and hardware

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