### Temperature Switches

**Series DA-7035N**

- **Bulb and Capillary, Inert Gas Fill**
- **Temp. Switches**
- **Mechanical**

- **Visible, calibrated dial and external adjustments make changing setpoints simple and fast.**
- **Fully adjustable deadband makes units suitable for a wide range of control applications.**
- **Bourdon tube assures high sensitivity and long life.**
- **Time-proven switching mechanism used in our Series DA pressure switches.**
- **Bourdon tube assures high sensitivity and long life.**
- **Gases.**
- **No cross ambient temperature effects.**
- **Inert gas activated Bourdon tube.**
- **Snap action switch standard.**
- **Adjustable deadband.**
- **Visible dial calibrated in both °F and °C.**
- **No bulb elevation correction required.**
- **Inert gas activated Bourdon tube.**
- **Visible dial calibrated in both °F and °C.**
- **High sensitivity and long life.**

**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**

- **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.

**Series 650**

**Temperature Transmitter**

- **4-20 mA Signal, Two Wire Operation, Temperatures from -55 to 180°C**

**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).
- **Process Connection:** 3/4” male NPT. Other sizes available.
- **Mounting Orientation:** Vertical and level.
- **Set Point Adjustment:** External knobs for set point and reset point.
- **Weight:** 5 lb (2.3 kg).
- **Deadband:** Adjustable from minimum in model chart to full range. Optional low fixed deadband.
- **Capillary:** 6 ft (1.8 m) standard. Ranges 1N – 7N, and 10N: copper. Ranges 8N, 9N, 11N: 304 SS.
- **Set Point Scale:** Indication in °F and °C.
- **Options:** See switch type, see enclosures, fixed deadband, longer or shorter capillary, armored capillary, wells, two stage, 1/2” or 1” connection sizes, manual reset, and other bulb styles.

**APPLICATIONS**

- **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.**

**ACCESSORY**

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

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