**MODEL 862E | MERCOID® BY DWYER**

**EXPLOSION-PROOF, HEAVY-DUTY THERMOSTAT**

Line or Low Voltage, Heating or Cooling

Explosion-proof, heavy duty, the **MODEL 862E** Thermostat is designed for hazardous-location temperature control of heating, cooling, or ventilation systems and features an adjustable set point knob for easy and convenient setpoint adjustment.

**FEATURES/BENEFITS**

- Adjustable deadband
- No cross ambient temperature effects
- Adjustable set point knob for easy and convenient setpoint adjustment.

**APPLICATIONS**

- HVAC control
- Grain processing and storage facilities
- Petrochemical plants
- Oil trigs or refineries

**SPECIFICATIONS**

- Service: Compatible gases.
- Temperature Limit: -49 to 176°F (-45 to 80°C).
- Enclosure Rating: Explosion-proof NEMA 7 & 9, Class I, Divisions 1 & 2, Groups C & D; Class II, Division 1, Groups E, F & G; Class II, Division 2, Groups F & G; Class III, Class I, Zones 1 & 2, Groups IIA & IIB.
- Switch Type: SPDT snap action switch.
- Electrical Rating: 22 A @ 480 VAC (res.), 1/2 HP @ 125 VAC, 1 HP @ 250 VAC.
- Electrical Connection: Screw terminal.
- conduit Connection: 3/4" female NPT.
- Set Point Adjustment: External knob.
- Adjustable Range: 36 to 62°F (2 to 28°C).
- Deadband: 2.5°F (1.5°C).
- Weight: 2.1 lb (0.95 kg).
- Agency Approvals: CSA, UL.

**USA: California Proposition 65**

⚠️ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

---

**SERIES DA-7035N | MERCOID® BY DWYER**

**TEMPERATURE SWITCHES**

Bulb and Capillary, Inert Gas Fill

The **SERIES DA-7035N** Temperature Switches include the same time-proven switching mechanism used in our Series DA pressure switches. Bourdon tube ensures high sensitivity and long life.

**FEATURES/BENEFITS**

- Adjustable deadband
- No cross ambient temperature effects
- Visible dial calibrated in both °F and °C
- Visible off/on indication

**APPLICATIONS**

- Mechanical process temperature monitoring

**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% FS.
- Switch Type: SPDT snap action switch. Optional DPDT snap and a variety of mercury switches.
- Electrical Rating: 10 A @ 120/240/480 VAC.
- Electrical Connections: Screw terminal.
- Conduct Connection: 3/4" (22.67 mm) hold for 1/2" (12.7 mm) conduit hub.
- Process Connection: 3/4" male NPT. Other sizes available.
- 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" (1.8 m) standard. Ranges 1N to 7N, and 10N: copper. Ranges 8N, 9N, 11N: 304 SS.
- Set Point Scale: Indication in °F and °C.
- Options: See web page for additional option models such as: switch type enclosures, fixed deadband, longer or shorter capillary, armored capillary, wells, two stage, 1/2" or 1 connection sizes, manual reset.

---

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Range °F (°C)</th>
<th>Max. Temp. °F (°C)</th>
<th>Min. Deadband °F (°C)</th>
<th>Min. Insertion Depth &quot;E&quot; in. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-7035-153-1N</td>
<td>-60 to +30 (-50 to 0) 0 to 100</td>
<td>150 (65)</td>
<td>23 (13)</td>
<td>2-7/8 (73)</td>
</tr>
<tr>
<td>DA-7035-153-3N</td>
<td>-18 to 40</td>
<td>240 (115)</td>
<td>25 (14)</td>
<td>2-7/8 (73)</td>
</tr>
<tr>
<td>DA-7035-153-4N</td>
<td>50 to 150 (10 to 65)</td>
<td>250 (120)</td>
<td>25 (14)</td>
<td>2-7/8 (73)</td>
</tr>
<tr>
<td>DA-7035-153-5N</td>
<td>100 to 200 (40 to 95)</td>
<td>300 (150)</td>
<td>25 (14)</td>
<td>2-7/8 (73)</td>
</tr>
<tr>
<td>DA-7035-153-7N</td>
<td>140 to 300 (60 to 150) (100 to 150) (250 to 415) (120 to 215)</td>
<td>500 (260)</td>
<td>41 (23)</td>
<td>2-7/8 (73)</td>
</tr>
<tr>
<td>DA-7035-153-8N</td>
<td>350 to 550 (175 to 290)</td>
<td>600 (315)</td>
<td>50 (28)</td>
<td>4-7/8 (124)</td>
</tr>
<tr>
<td>DA-7035-153-9N</td>
<td>100 to 300 (40 to 150) (100 to 500) (40 to 260)</td>
<td>500 (260)</td>
<td>50 (28)</td>
<td>2-7/8 (73)</td>
</tr>
<tr>
<td>DA-7035-153-10N</td>
<td>100 to 500 (40 to 260)</td>
<td>600 (315)</td>
<td>100 (56)</td>
<td>2-7/8 (73)</td>
</tr>
</tbody>
</table>

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