The Series HS Humidity Switch provides control for humidifying or dehumidifying systems. Relative humidity, output status, and error messaging can be viewed on the bright green LED. Access to programming parameters can be locked for security purposes using the password protection feature.

**BENEFITS/FEATURES**
- Relative humidity display and control
- Parameter protection
- 0-1 V, 3 V or 4-20 mA input selection

**APPLICATIONS**
- Environmental chambers
- Beer and wine chillers
- Greenhouses

**SPECIFICATIONS**
- **Relative Humidity Range:** 10 to 100% RH.
- **Input:** 0-1 V, 3 V or 4-20 mA.
- **Accuracy:** THC-P: ±5% @ 20 to 90%; HS: ±1% RH.
- **Display:** 3-digit, green, 1/2˝ (12.7 mm) digits.
- **Resolution:** 1 digit.
- **Temperature Limits:** 32 to 158°F (0 to 70°C).
- **Storage Temperature:** -4 to 176°F (-20 to 80°C).
- **Output:** 16 A SPDT relay @ 250 VAC resistive.
- **Horsepower Rating (HP):** 1 HP.
- **Control Type:** ON/OFF.
- **Power Requirements:** 115 VAC or 230 VAC (depending on model).
- **Memory Backup:** Nonvolatile memory.
- **Front Panel Rating:** IP64.
- **Weight:** 2.3 oz (65 g).
- **Compliance:** CE, cURus.

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply Power</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-311</td>
<td>115 VAC</td>
<td></td>
</tr>
<tr>
<td>HS-312</td>
<td>230 VAC</td>
<td></td>
</tr>
</tbody>
</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>THC-P</td>
<td>Humidity probe, 3 V output, 4’ (1.2 m) cable</td>
</tr>
</tbody>
</table>

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The Series THC Temperature/Humidity Switch simultaneously measures and controls temperature and humidity. The unit offers a 3-digit red display for temperature indication and a 3-digit green display indicating humidity. The Series THC is equipped with four independent relays, two for temperature control and two relays for humidity control.

The THC Temperature/Humidity Switch accepts up to two temperature probe inputs (sold separately) and a humidity sensor. A humidity sensor with 0-1 V, 3 V (THC-P sold separately), or 4-20 mA output can be used with the Series THC.

**BENEFITS/FEATURES**
- Temperature and humidity control in one device
- Password protected parameter settings
- Selectable fail safe status of relay outputs

**APPLICATIONS**
- Isolation chambers
- Environmental chambers
- Greenhouses
- Beer and wine chillers

**SPECIFICATIONS**
- **Measurement Range:** Temperature: -58 to 302°F (-50 to 150°C); Humidity: 0 to 100% RH.
- **Input:** Up to 2 thermostors and 1 humidity sensor.
- **Output:** 4 SPST, 8 A relays @ 250 VAC.
- **Horsepower Rating (HP):** 1/3 HP.
- **Control Type:** ON/OFF direction, direct or reverse acting, neutral.
- **Power Requirements:** 110 or 230 VAC (depending on model).
- **Accuracy:** Temperature ±0.5% of probe range; Humidity: 20 to 90%.
- **Display:** Two 3-digit displays, 1/2˝ digits.
- **Resolution:** 0.1°.
- **Memory Backup:** Nonvolatile memory.
- **Ambient Operating Temperature:** 32 to 158°F (0 to 70°C).
- **Storage Temperature:** -4 to 176°F (-20 to 80°C).
- **Panel Cutout:** 5.15˝ x 3.97˝ (131 x 101 mm).
- **Front Panel Protection:** IP64.
- **Weight:** 1.17 lb (530 g).
- **Compliance:** CE.

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply Power</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>THC-30</td>
<td>20-250 VAC, 24 VDC</td>
<td>°F</td>
</tr>
<tr>
<td>THC-31</td>
<td>20-250 VAC, 24 VDC</td>
<td>°C</td>
</tr>
</tbody>
</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>THC-P</td>
<td>Humidity probe, 3 V output, 4 ft (1.2 m) cable</td>
</tr>
<tr>
<td>TS-5</td>
<td>Temperature probe, PVC with 5 ft (1.5 m) cable</td>
</tr>
<tr>
<td>TS-6</td>
<td>Temperature probe, metal with 5 ft (1.5 m) cable</td>
</tr>
<tr>
<td>TS-51</td>
<td>Temperature probe, PVC with 10 ft (3 m) cable</td>
</tr>
<tr>
<td>TS-61</td>
<td>Temperature probe, metal with 10 ft (3 m) cable</td>
</tr>
</tbody>
</table>