**WEATHER PROOF DIGITAL TEMPERATURE SWITCH**

NEMA 4X Housing, Single or Dual Stage, 20 A Contact Rating

The Series TSW Weather Proof Digital Temperature Switch combines the trusted, reliable TS family of temperature controls and an installation friendly weatherproof enclosure. The bright, easy-to-read LED display shows the current output status and the temperature measurement.

**FEATURES/BENEFITS**
- Weatherproof housing
- Single or dual stage models
- Configuration key
- Physical and passcode parameter setting protection

**APPLICATIONS**
- Chillers
- Walk in cooler
- Woodboilers
- Brewing systems

**SPECIFICATIONS**

**Probe Range:** PTC: -58 to 302°F (-50 to 150°C); NTC: -58 to 230°F (-50 to 110°C).

**Input:** PTC (1200Ω @ 25°C); NTC (10KΩ @ 25°C).

**Output:** R1 SPDT relay resistive load: 20 A @ 240 VAC; R2 SPST relay resistive load: 8 A @ 240 VAC; Inductive load: 3 A @ 240 VAC.

**Horsepower Rating:** R1: 2HP @ 240 VAC.

**Control Type:** On/off.

**Power Requirements:** 90 to 255 VAC or 12 to 24 VAC/VDC (±10%) depending on model.

**Power Consumption:** 3.6 VA.

**Accuracy:** ±1% FS.

**Display:** 3 digits plus sign.

**Resolution:** Single stage: 1°; Dual stage: 0.1° < 100; 1° ≥ 100°.

**Memory Backup:** Non-volatile memory.

**Ambient Temperature:** 32 to 104°F (0 to 40°C).

**Weight:** 1.2 lb (544 g).

**Enclosure Rating:** NEMA 4X (IP66).

**Agency Approvals:** CE, cURUS.

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**DIGITAL TEMPERATURE/WATER LEVEL SWITCH**

Two Temperature Set Points, Low Water Level Alarm

The Series TSWB Digital Temperature/Water Level Switch offers complete boiler control for outdoor wood boilers and other similar heating equipment.

**FEATURES/BENEFITS**
- 3 outputs for high temp, low temp or input alarm
- Conductivity probe input for water level monitoring
- Configuration key

**APPLICATIONS**
- Wood or pellet boilers

**SPECIFICATIONS**

**Probe Range:** PTC: -58 to 302°F (-50 to 150°C); NTC: -58 to 230°F (-50 to 110°C).

**Probe Temperature Input:** PTC (1000Ω @ 25°C); NTC (10KΩ @ 25°C).

**Probe Level Input:** Conductivity probe: Max voltage 12 VAC. Sensitivity established from factory at 100KΩ.

**Output:** R1 SPST NO relay resistive load: 5 A @ 250 VAC; R2 SPST NC relay resistive load 5 A @ 250 VAC; R3 SPDT relay resistive load 16 A @ 240 VAC.

**Horsepower Rating:** 1HP -- 10FLA, 60LRA 250 VAC.

**Control Type:** On/off.

**Power Requirements:** 115 VAC ± 10%, 230 VAC ± 10%, 24 VAC/DC ± 10%, 12 VAC/DC ± 10%.

**Power Consumption:** 4VA (230V/115V), 1.5VA (24V/12V).

**Accuracy:** > 1% of full-scale.

**Display:** 3-digit, red 1/2˝ digits.

**Resolution:** 1° (3 digits).

**Memory Backup:** Non-volatile memory.

**Ambient Operating Temperature:** 32 to 158°F (-30 to 70°C).

**Storage Temperature:** -4 to 176°F (-30 to 80°C).

**Weight:** 3.5 oz.

**Front Protection:** IP64.

**Agency Approvals:** CE, cULus.

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**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Temperature Probe Included</th>
<th>Supply Power</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSW-150</td>
<td>Single stage</td>
<td>TS-8T</td>
<td>90 to 255 VAC</td>
<td>$69.00</td>
</tr>
<tr>
<td>TSW-160</td>
<td>Single stage</td>
<td>TS-8T</td>
<td>12 to 24 VAC/VDC</td>
<td>69.00</td>
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<tr>
<td>TSW-250</td>
<td>Dual stage</td>
<td>TS-8T</td>
<td>90 to 255 VAC</td>
<td>55.00</td>
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<tr>
<td>TSW-260</td>
<td>Dual stage</td>
<td>TS-8T</td>
<td>12 to 24 VAC/VDC</td>
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<tr>
<td>TSW-150-NP</td>
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<td>None</td>
<td>90 to 255 VAC</td>
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<tr>
<td>TSW-160-NP</td>
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<tr>
<td>TSW-260-NP</td>
<td>Dual stage</td>
<td>None</td>
<td>12 to 24 VAC/VDC</td>
<td>82.00</td>
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</tbody>
</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>CC1-N</td>
<td>Temperature sensor clip, neutral</td>
<td>$1.30</td>
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<tr>
<td>CC1-GY</td>
<td>Temperature sensor clip, grey</td>
<td>1.30</td>
</tr>
</tbody>
</table>

Items are net priced and are not subject to any discount.