The Series TSF Thermocouple Limit Control provides audible alarm status along with a relay output. Unit allows the user to easily select automatic or manual reset via a built in reset button on the front panel or an external contact.

**FEATURES/BENEFITS**
- FM approved temperature limiting control
- Integral and remote reset capabilities

**APPLICATIONS**
- Gas fired oven and burner control

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply Power</th>
<th>Unit</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSF-4010</td>
<td>115 VAC</td>
<td>°F</td>
<td>$89.00</td>
</tr>
<tr>
<td>TSF-4011</td>
<td>115 VAC</td>
<td>°C</td>
<td>$89.00</td>
</tr>
<tr>
<td>TSF-4021</td>
<td>230 VAC</td>
<td>°C</td>
<td>$89.00</td>
</tr>
<tr>
<td>TSF-4040</td>
<td>24 VAC/VDC</td>
<td>°F</td>
<td>$89.00</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**
- **Probe Range:** 32 to 999°F (0 to 700°C) for Type J thermocouple; 32 to 999°F (0 to 999°C) for Type K or S thermocouples.
- **Input:** Type J, K, or S thermocouple.
- **Output:** SPDT relay rated 16 A @ 240 VAC resistive.
- **Horsepower Rating (HP):** 1 HP.
- **Control Type:** ON/OFF; manual/automatic reset.
- **Power Requirements:** 115 VAC, 230 VAC, 12 VAC/VDC or 24 VAC/VDC (depending on model).
- **Power Consumption:** 4 VA.
- **Accuracy:** ±1% FS.
- **Display:** 3-digit, red, 1/2˝ (12.7 mm) digits, plus sign.
- **Resolution:** 1°.
- **Memory Backup:** Nonvolatile memory.
- **Ambient Operating Temperature:** 32 to 140°F (0 to 60°C).
- **Storage Temperature:** -4 to 176°F (-20 to 80°C).
- **Weight:** 2.3 oz (65 g).
- **Front Panel Rating:** IP64 (NEMA 3R).
- **Agency Approvals:** CE, FM, cURus.

The Series TSF-DF Thermocouple Limit Control is a UL approved temperature limit control that provides visual alarm status along with a relay output. The Series TSF-DF controls have a built in reset button on the front panel or can accept an external reset signal.

Program settings on model TSF-DF controls cannot be changed through the buttons on the device. It is necessary to purchase a model TSF-MDF and a model TS2-K in addition to the model TSF-DF. Desired program parameters are entered on a TSF-MDF programming control. Using the TSF-2K configuration key, the parameters can be easily copied from the TSF-MDF and transferred to the TSF-DF Limit Alarms.

**FEATURES/BENEFITS**
- UL approved limit control

**APPLICATIONS**
- Gas fired oven and burner control

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply Power</th>
<th>Unit</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSF-4010-DF</td>
<td>115 VAC</td>
<td>°F</td>
<td>$89.00</td>
</tr>
<tr>
<td>TSF-4011-DF</td>
<td>115 VAC</td>
<td>°C</td>
<td>$89.00</td>
</tr>
<tr>
<td>TSF-4021-DF</td>
<td>230 VAC</td>
<td>°C</td>
<td>$89.00</td>
</tr>
<tr>
<td>TSF-4040-DF</td>
<td>24 VAC/VDC</td>
<td>°F</td>
<td>$89.00</td>
</tr>
<tr>
<td>TSF-4010-MDF</td>
<td>Programming control</td>
<td>115 VAC</td>
<td>°F</td>
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<tr>
<td>TSF-4011-MDF</td>
<td>Programming control</td>
<td>115 VAC</td>
<td>°C</td>
</tr>
<tr>
<td>TSF-4021-MDF</td>
<td>Programming control</td>
<td>230 VAC</td>
<td>°C</td>
</tr>
<tr>
<td>TSF-4040-MDF</td>
<td>Programming control</td>
<td>24 VAC/VDC</td>
<td>°F</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**
- **Probe Range:** 32 to 999°F (0 to 700°C) for thermocouple J type; 32 to 999°F (0 to 999°C) for thermocouple K or S type.
- **Input:** Type J, K, or S thermocouple.
- **Output:** NO SPST relay rated 16 A @ 240 VAC resistive.
- **Horsepower Rating (HP):** 1 HP.
- **Control Type:** ON/OFF; manual/automatic reset.
- **Power Requirements:** See model chart.
- **Power Consumption:** 4 VA @ 230 VAC.
- **Accuracy:** ±1% FS.
- **Display:** 3-digit, red, 1/2˝ (12.7 mm) digits, plus sign.
- **Resolution:** 1°.
- **Memory Backup:** Nonvolatile memory.
- **Ambient Operating Temperature:** 32 to 140°F (0 to 60°C).
- **Storage Temperature:** -4 to 176°F (-20 to 80°C).
- **Weight:** 2.3 oz (65 g).
- **Front Panel Rating:** IP64.
- **Agency Approvals:** CE, cURus (DF models only).

**ACCESSORIES**
- See page reference below.

[Digital Temperature Switch Probes and Accessories: See page 131 (Series TS-Probes)]