Model 8611 Type J thermocouple to frequency converter is designed to operate into the common 24 Volt, 7 mA PLC inputs. Its output is an isolated optocoupler transistor and provides DC isolation from the input and DC power. The 8611 will operate with a DC supply of 15 volts to 26 Volts at 17 mA.

Model 8612 Type K thermocouple to frequency converter is designed to operate into the common 24 volt, 7 mA PLC inputs. The output frequency is linear to the temperature. Its output is an isolated optocoupler transistor and provides DC isolation from the input and DC power. The 8612 will operate with a DC supply of 15 Volts to 26 Volts at 20 mA.

The Model 8611 and 8612 modules are housed in a plastic housing with a U-foot for mounting on standard DIN rails. The unit’s dimensions, excluding the mounting foot, are 1.65”H x 1.06”W x 3.78”L. Connections are made to screw clamp terminal blocks.
## Models 8611, 8612

<table>
<thead>
<tr>
<th>Model</th>
<th>Input</th>
<th>Output</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Cold Junction Compensation</th>
<th>Output Source</th>
<th>Response Time</th>
<th>Isolation</th>
<th>Power Requirements</th>
<th>Environment</th>
<th>Agency Approvals</th>
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<tbody>
<tr>
<td>8611</td>
<td>Type J Thermocouple 0°C to 500°C or 0°C to 1000°C</td>
<td>10 Hz at 0°C to 510 Hz at 500°C</td>
<td>±1°C for 1 second Time Base</td>
<td>±2°C plus the error of J Thermocouple</td>
<td>±0.05°C / °C Typical</td>
<td>Floating Optocoupler Transistor, 7mA Minimum Current</td>
<td>1 second</td>
<td>700 Volts DC 5 pF</td>
<td>15 to 26 Volts DC 17 mA Typical</td>
<td>0°C to +55°C</td>
<td>UL508, C22.2 No 14-M91</td>
</tr>
<tr>
<td>8612</td>
<td>Type K Thermocouple 0°C to 1250°C</td>
<td>5 Hz at 0°C to 255 Hz at 500°C and 630 Hz at 1250°C</td>
<td></td>
<td></td>
<td>±0.05°C / °C Typical</td>
<td></td>
<td></td>
<td>700 Volts DC 5 pF</td>
<td>15 to 26 Volts DC 20 mA Typical</td>
<td>0°C to +55°C</td>
<td></td>
</tr>
</tbody>
</table>

- **INPUT**
  - 1: + INPUT
  - 2: - INPUT
  - 3: COM
  - 4: + VDC
  - 5: EMMITER
  - 6: COLLECTOR

- **UNIVERSAL FOOT**
  - FOR STANDARD DIN EN RAILS
- **DIMENSIONS**
  - 3.78" (95 mm) x 2.60" (66 mm) x 1.06" (27 mm)

- **COLD JUNCTION COMPENSATION**
  - ±2°C to 5°C
  - 23°C to ±2°C
  - ±0.05°C / °C Typical
  - ±0.05°C / °C Typical
- **ACCURACY**
  - ±2°C plus the error of J Thermocouple
  - ±2°C plus the error of K Thermocouple

- **POWER REQUIREMENTS**
  - Voltage: 5 to 26 Volts DC
  - Current: 7 mA Typical

- **ENVIRONMENT**
  - Operating: +2°C to +55°C
  - Storage: 0°C to +80°C

- **WEIGHT**
  - 3 oz (85 grams)