The 571004 linearized digital indicating thermocouple transmitter measures thermocouple voltages as a function of temperature and provides a linearized 4 to 20MADC output loop signal. Integrimately mounted 3/2 digit LCD display provides local indication of the process temperature in degrees C or degrees F. The transmitter is housed in an explosion-proof enclosure certified to NEMA 4/7/9, CL 1, GR-B, C, & D; CL 2, GR-E & G and provides two 1/2 inch NPT wiring ports. The enclosure is constructed of copper-free aluminum and is finished in safety-blue epoxy. The spring loaded thermo-couple sensor is integrally mounted, permitting close-coupled mounting at the point of measurement.

**TECHNICAL SPECIFICATIONS**

**INPUT RANGE:**
- T/C Type "J" 0 to 1300 Degrees F Max.
- T/C Type "K" 0 to 2400 Degrees F Max.
- T/C Type "T" 0 to 700 Degrees F Max.
- T/C Type "E" 0 to 1800 Degrees F Max.

"K" Type Thermocouple Standard
All ANSI Types Available

**INPUT SPAN:**
5 Millivolt Min.

**OUTPUT:**
4 to 20MADC into 600 Ohms @ 24VDC

**ACCURACY:**
+/-0.2 % of Span

**LINEARITY:**
Type "J" (Iron-Constantan)
- 0 to 400 Degrees F +/-0.15% Nominal
- 400 to 800 Degrees F +/-0.02% Nominal
- 800 to 1300 Degrees F +/-0.20% Nominal

Type "K" (Chromel-Alumel)
- 0 to 800 Degrees F +/-0.09% Nominal
- 800 to 1600 Degrees F +/-0.11% Nominal
- 1600 to 2400 Degrees F +/-0.20% Nominal

Type "T" (Copper-Constantan)
- 200 to 400 Degrees F +/-0.19% Nominal
- 300 to 600 Degrees F +/-0.20% Nominal
- 400 to 700 Degrees F +/-0.18% Nominal

Type "E" (Chromel-Constantan)
- 200 to 400 Degrees F +/-0.14% Nominal
- 400 to 800 Degrees F +/-0.10% Nominal
- 800 to 1800 Degrees F +/-0.14% Nominal

**POWER:**
12 to 36 Volts DC, 24 Volts DC Nominal

**COMPENSATED TEMPERATURE RANGE:**
-20 to + 140 Degrees F

**ZERO AND SPAN EFFECT:**
Less than .02% per Degree F

**DISPLAY:**
0.5” High, 3 1/2 Digit Liquid Crystal
Indexable in (4) 90-Degree Increments

**ANNUNCATION:**
Jumper Selectable "F" or "C"
D.P. Programmable X-XXX, XX-XX, XXX-X, XXXX.
Auto Polarity Indication
Open Input Over Range Blanking

**UPDATE TIME:**
3 Readings Per Second Nominal

**ZERO AND SPAN ADJUSTMENT:**
Transmitter +/- 20% of Span Typical
Indicator: Span +/- 50% Typical
Zero +/- 100% Typical

**ENCLOSURE:**
NEMA 4/7/9 Gasketed Housing
CL-1, GR-B, C, D; CL-2, GR-E and G
Two 1/2-Inch NPT Wiring Ports
Copper-Free Aluminum
“Safety Blue”. Epoxy Finish

**WIRING CONNECTIONS:**
4 Position, Box Clamp Terminal Block with
(4) #18 Flying Leads

**EMI/RFI IMMUNITY:**
Less than 0.8% of Span at 10V/M
Per SAMA: 2 ac: 0.8% 2ac: 1.25%
Ref. Standard PMC 33.1-1987

---

**INDICATING TEMPERATURE TRANSMITTER MODEL 571004**

**STANDARD MODELS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Unit</th>
<th>Length</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>571004-</td>
<td>.U.</td>
<td>1.5”</td>
<td>-304SS</td>
</tr>
<tr>
<td>571004-</td>
<td>.U.</td>
<td>2.5”</td>
<td>-304SS</td>
</tr>
<tr>
<td>571004-</td>
<td>.U.</td>
<td>4.5”</td>
<td>-304SS</td>
</tr>
<tr>
<td>571004-</td>
<td>.U.</td>
<td>7.5”</td>
<td>-304SS</td>
</tr>
<tr>
<td>571004-</td>
<td>.U.</td>
<td>10.5”</td>
<td>-304SS</td>
</tr>
<tr>
<td>571004-</td>
<td>.U.</td>
<td>13.5”</td>
<td>-304SS</td>
</tr>
<tr>
<td>571004-</td>
<td>.U.</td>
<td>16.5”</td>
<td>-304SS</td>
</tr>
<tr>
<td>571004-</td>
<td>.U.</td>
<td>22.5”</td>
<td>-304SS</td>
</tr>
</tbody>
</table>

1/2-Inch NPT Process Connection Standard
Optional 3/4 and 1 Inch Process Connections
Optional 316 SS Thermowell

**FEATURES**

- Spring Loaded T/C Sensor
- Linearized Output
- Epoxy Finish
- Group "B" Housing
- 1/2" Digital Display
- Selectable F or C Display

---

Analynk Wireless, LLC ♦ 790 Cross Pointe Road ♦ Columbus, OH 43230
Phone: (614) 755-5091 Fax: (614) 755-5093 Web: [www.analynk.com](http://www.analynk.com) & [www.telmarinc.com](http://www.telmarinc.com)