West 6500 1/16 DIN Simplified Temperature Controller

The West 6500 features a simplified operator interface, and automatic self-tuning on process start-up. Clear Go/No-go “on control” indicator and a large 3 digit display for high visibility.

- Thermocouple or RTD
- Easy Tune (PID) or On/Off
- On control indicator
- Optional process alarm
- Foolproof operation
- Setpoint lock
- Alarm lock

Technical Data

<table>
<thead>
<tr>
<th>Features</th>
<th>Easy Tune PID (with adjustable cycle time) or On-Off control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Types</td>
<td>Control Relay or SSR, plus optional Alarm Relay</td>
</tr>
<tr>
<td>Alarm Type</td>
<td>Process high, process low, setpoint deviation or band</td>
</tr>
<tr>
<td>Human Interface</td>
<td>3 button operation, 3 digit 13mm high red LED display, plus on-control, set-up, alarm and setpoint indicators</td>
</tr>
<tr>
<td>On-Control Indicator</td>
<td>Off below setpoint, on at setpoint, flashing above setpoint</td>
</tr>
<tr>
<td>Thermocouple Types</td>
<td>J, K, T, L, &amp; N</td>
</tr>
<tr>
<td>Thermocouple Ranges</td>
<td>0 to 100, 200, 300, 400, 500, 600, 700 or 800°C (max temperature 400°C for type T)</td>
</tr>
<tr>
<td>RTD Type</td>
<td>3 Wire PT100, 50Ω per lead maximum (balanced)</td>
</tr>
<tr>
<td>RTD Ranges</td>
<td>-50 to 100, 200, 300, 400, 500, 600, 700, 800°C or 0.0 to 99.9°C</td>
</tr>
<tr>
<td>Impedance</td>
<td>&gt;100MΩ</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/- 0.25% of input span +/- 1 LSD (T/C CJC better than 0.7°C)</td>
</tr>
<tr>
<td>Sampling</td>
<td>4 per second, 14 bit resolution approximately</td>
</tr>
<tr>
<td>Sensor Break Detection</td>
<td>&lt;2 secs, control output turns off, high alarm activates for T/C input, low alarm activates for RTD input</td>
</tr>
</tbody>
</table>

Outputs & Options

- Control & Alarm Relays: Contacts 5PD 2Amp resistive at 240V AC, >500,000 operations
- Control SSR Outputs: Drive capability >10V DC into 500Ω minimum

Environmental

- Temperature & RH: 0 to 55°C (-20 to 80°C storage), 20% to 95%RH non-condensing
- Power Supply: 100 to 240V 50/60Hz 7.5VA (optional 20 to 50V AC 7.5VA/22 to 65V DC 4W)
- Front Panel Protection: IEC IP66 (Behind panel protection is IP20)
- Approvals and Certification: CE, UL & ULc

Call us now on 01706 216667
Dimensions

- Cut out
  - 45 x 45mm
  - +0.5 – 0.0

Connection Details

Field Reconfiguration

- **Input**
  - Configurable for thermocouple or RTD, no extra parts required
- **Output 1**
  - Type is fixed as Relay or SSR, not field configurable
- **Output 2**
  - Type is fixed as None or Alarm Relay, not field configurable

Order Code

- **Input Type**
  - 3 Wire RTD: 1
  - Thermocouple: 2
- **Output 1**
  - Relay Control: 1
  - DC for SSR Control: 2

- **Power Supply**
  - 00: 100-240V AC line supply
  - 02: 24-48V AC or DC line supply

- **Output 2**
  - 0: Not Fitted
  - 1: Relay Alarm Output

In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document.

6500 Spec Sheet – 08/03

Call us now on 01706 216667