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

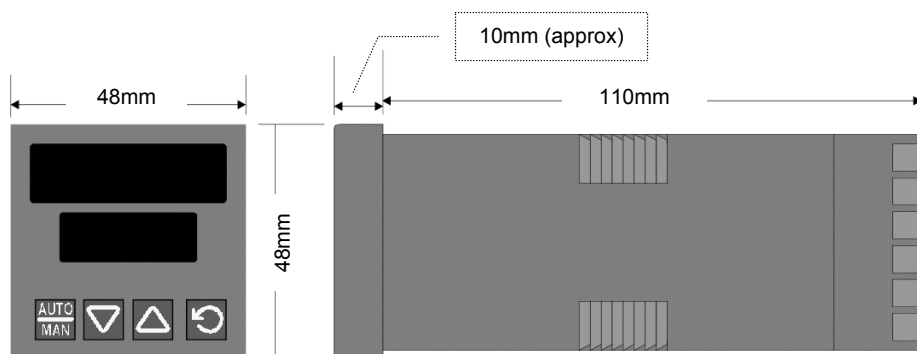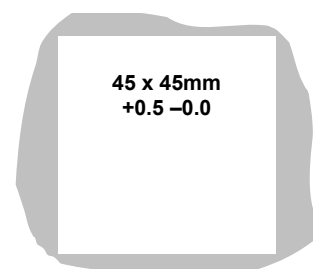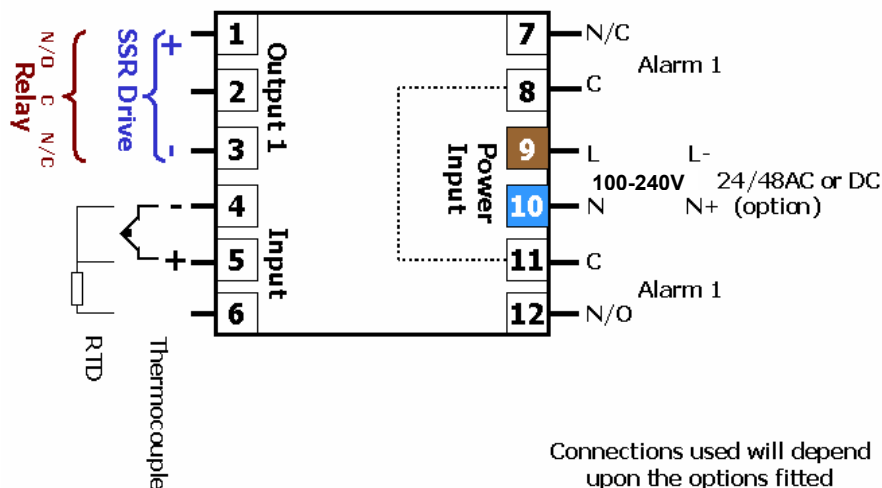| Features	
Control Types	Easy Tune PID (with adjustable cycle time) or On-Off control
Output Configuration	Control Relay or SSR, plus optional Alarm Relay
Alarm Type	Process high, process low, setpoint deviation or band
Human Interface	3 button operation, 3 digit 13mm high red LED display, plus on-control, set-up, alarm and setpoint indicators
On-Control Indicator	Off below setpoint, on at setpoint, flashing above setpoint
Input	
Thermocouple Types	J, K, T, L, & N
Thermocouple Ranges	0 to 100, 200, 300, 400, 500, 600, 700 or 800°C (max temperature 400°C for type T)
RTD Type	3 Wire PT100, 50Ω per lead maximum (balanced)
RTD Ranges	-50 to 100, 200, 300, 400, 500, 600, 700, 800°C or 0.0 to 99.9°C
Impedance	>100MΩ
Accuracy	+/- 0.25% of input span +/- 1 LSD (T/C CJC better than 0.7°C)
Sampling	4 per second, 14 bit resolution approximately
Sensor Break Detection	<2 secs, control output turns off, high alarm activates for T/C input, low alarm activates for RTD input
Outputs & Options	
Control & Alarm Relays	Contacts SPDT 2Amp resistive at 240V AC, >500,000 operations
Control SSR Outputs	Drive capability >10V DC into 500Ω minimum
Operating & 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

![WEST logo]
Temperature Control Solutions

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Dimensions

Cut out

10mm (approx)

48mm   110mm   48mm

45 x 45mm
+0.5 −0.0

Connection Details

1	Output 1	7	N/C
2		8	C
3		9	L
4	Input	10	N
5		11	C
6		12	N/O

Relay — N/O C N/C
SSR Drive — + -

Alarm 1

Power Input
100-240V   L-   24/48AC or DC
N+ (option)

Alarm 1

RTD   Thermocouple

Connections used will depend
upon the options fitted

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__

N6500 - *x* - *x* - *x* - *0* - *xx*

Input Type				**Power Supply**
3 Wire RTD or DC mV	1		00	100-240V AC line supply
Thermocouple	2		02	24-48V AC or DC line supply

Output 1				**Output 2**
Relay Control	1		0	Not Fitted
DC for SSR Control	2		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.