

## West P6100 1/16 Din Process Controller



With its improved interface, technical functionality and field flexibility, the West 6100 gives you the best in comprehensive control for most temperature and process control loops.

- Jumperless Configuration
- Auto Detected Hardware
- Process & Loop Alarms
- Modbus & ASCII Comms
- Auto or Manual Tuning
- Heat/Cool Operation
- Ramping Setpoint
- Remote/Dual Setpoint Options



### Technical Data

#### Features

Control Types	Full PID with Pre-tune, Self-tune, manual tuning, or On-Off control. Heat only or heat & cool
Auto/Manual	Selectable from front panel or via digital input, with bumpless transfer
Output Configuration	Up to 3 possible, for control, alarm, 24VDC transmitter power supply or retransmit of process value or setpoint
Alarm 1 & 2 Types	Process high, process low, SP deviation, band, logical OR / AND. Also 1 loop alarm for process control security. Process alarms have adjustable hysteresis.
Human Interface	4 button operation, dual 4 digit 10mm & 8mm high LED displays, optional choice of colours (Red/Red, Red/Green, Green/Red or Green/Green), plus 5 LED indicators
PC Configuration	Off-line configuration from PC serial port to dedicated config socket (comms option not required). Configuration Software for Windows 98 or higher. West Part Number: PS1-CON

#### Input

Thermocouple	J, K, C, R, S, T, B, L, N & PtRh20%vsPtRh40%.
RTD	3 Wire PT100, 50Ω per lead maximum (balanced)
DC Linear	0 to 20mA, 4 to 20mA, 0 to 50mV, 10 to 50mV, 0 to 5V, 1 to 5V, 0 to 10V, 2 to 10V. Scaleable -1999 to 9999, with adjustable decimal point
Impedance	>10MΩ for Thermocouple and mV ranges, 47KΩ for V ranges and 5Ω for mA ranges
Accuracy	±0.1% of input range ±1 LSD (T/C CJC better than 1°C)
Sampling	4 per second, 14 bit resolution approximately
Sensor Break Detection	<2 seconds (except zero based DC ranges), control O/P's turn off, high alarms activate for T/C and mV ranges, low alarms activate for RTD, mA or V ranges

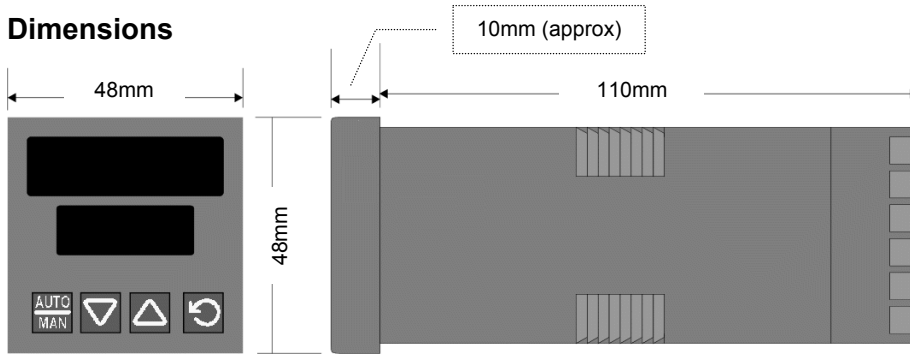
#### Outputs & Options

Control & Alarm Relays	Contacts SPDT 2 Amp resistive at 240V AC, >500,000 operations
Control SSR Driver Outputs	Drive capability >10V DC in 500Ω minimum
Triac Outputs	0.01 to 1 Amp AC, 20 to 280Vrms, 47 to 63Hz
DC Linear Outputs	0 to 20mA, 4 to 20mA into 500Ω max, 0 to 10V, 2 to 10V, 0 to 5V into 500Ω min. Control outputs have 2% over/under drive applied. Accuracy ±0.25% at 250Ω (degrades linearly to 0.5% for increasing burden to specified limits)
Transmitter Power Supply	Output 24VDC (nominal) into 910Ω minimum to power external devices
Communications	2 Wire RS485, 1200 to 19200 Baud, Modbus and ASCII protocol (selectable)
Digital Input	Selects between 2 setpoints or Auto/Manual control. Volt free or TTL input
Remote Setpoint Input	0 to 20mA, 4 to 20mA, 0 to 5V, 1 to 5V, 0 to 10V or 2 to 10V. Scaleable -1999 to 9999. Local/Remote setpoint selected from front panel

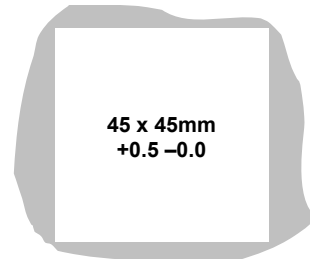
#### Operating & Environmental

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 48V AC 7.5VA/22 to 65V DC 5 watts)
Front Panel Protection	IEC IP66 (Behind panel protection is IP20)
Standards	CE, UL & ULC recognised

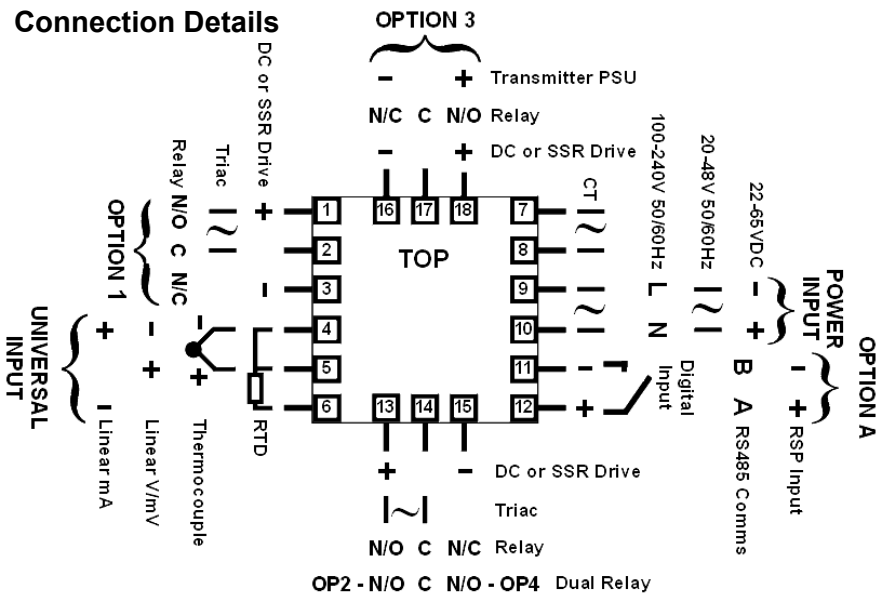
**Dimensions**



**Cut-out**



**Connection Details**



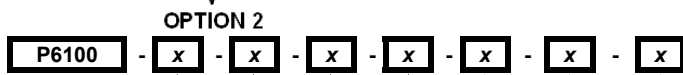
**Field Reconfiguration**

**Input**

Jumper-free configuration for any type (no extra parts required)

<b>Option Slot 1</b>	<b>Part Number</b>
Relay Output.....	PO1-C10
Linear mA/V DC Output.....	PO1-C21
SSR Driver Output.....	PO1-C50
Triac Output.....	PO1-C80
<b>Option Slot 2</b>	<b>Part Number</b>
Relay Output.....	PO2-C10
Linear mA/V DC Output.....	PO2-C21
SSR Driver Output.....	PO2-C50
Triac Output.....	PO2-C80
<b>Option Slot 3</b>	<b>Part Number</b>
Relay Output.....	PO2-C10
Linear mA/V DC Output.....	PO2-C21
SSR Driver Output.....	PO2-C50
24VDC Transmitter PSU.....	PO2-W08
<b>Option Slot A</b>	<b>Part Number</b>
Digital Input.....	PA1-W03
Remote Setpoint Input (Basic).....	PA1-W04
RS485 Comms.....	PA1-W06

**Order Code**



<b>Input Type</b>	
3 Wire RTD or DC mV	1
Thermocouple	2
DC mA	3
DC Voltage	4
<b>Option Slot 1</b>	
Not fitted	0
Relay	1
DC for SSR	2
DC 0-10V	3
DC 0-20mA	4
DC 0-5V	5
DC 2-10V	6
DC 4-20mA	7
Triac	8
<b>Option Slot 2</b>	
Not fitted	0
Relay	1
DC Driver for SSR	2
DC 0-10V	3
DC 0-20mA	4
DC 0-5V	5
DC 2-10V	6
DC 4-20mA	7
Triac	8

	<b>Display Colour</b>
0	Red Upper & Lower
1	Green Upper & Lower
2	Red Upper, Green Lower
3	Green Upper, Red Lower
	<b>Power Supply</b>
0	100-240V AC
2	24-48V AC or DC
	<b>Option Slot A</b>
0	Not fitted
1	RS485 Communications
3	Digital Input
4	Basic Remote Setpoint Input
	<b>Option Slot 3</b>
0	Not fitted
1	Relay
2	DC Driver for SSR
3	DC 0-10V
4	DC 0-20mA
5	DC 0-5V
6	DC 2-10V
7	DC 4-20mA
8	Transmitter Power Supply

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