



West 6100+, 8100+ & 4100+ Temperature & Process Controllers



Jumperless Configuration

Auto Detected Hardware

Process & Loop Alarms

Modbus & ASCII Comms

Auto or Manual Tuning

Heat/Cool Operation

Ramping Setpoint

Remote/Dual Setpoint Options

Available in 1/16, 1/8 & 1/4 DIN Formats



With their improved interface, technical functionality and field flexibility, the West 6100+, 8100+ and 4100+ give you the best in comprehensive control for most temperature and process control loops.

Specification

Features

Control Types Auto/Manual

Output Configuration

Alarm 1 & 2 Types

Human Interface

PC Configuration

Input

Thermocouple RTD DC Linear

Impedance Accuracy Sampling

Sensor Break Detection

Outputs & Operations

Control & Alarm Relays Control SSR Driver Outputs Triac Outputs DC Linear Outputs

Transmitter Power Supply Communications Digital Input Remote Setpoint Input Full PID with Pre-tune, Self-tune, manual tuning, or On-Off control. Heat only or heat & cool

Selectable from front panel or via digital input, with bumpless transfer

Up to 3 possible, for control, alarm, 24VDC transmitter power supply or retransmit of process value or setpoint

Process high, process low, SP deviation, band, logical OR / AND. Also 1 loop alarm for process control security. Process alarms have adjustable hysteresis.

4 button operation, dual 4 digit 10mm & 8mm high (6100+, 8100+) and 13mm & 10mm high (4100+) LED displays, optional choice of colours (Red/Red, Red/Green, Green/Red or Green/Green), plus 5 LED indicators

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

J, K, C, R, S, T, B, L, N & PtRh20%vsPtRh40%.

3 Wire PT100, 50Ω per lead maximum (balanced)

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

>10M Ω for Thermocouple and mV ranges, 47K Ω for V ranges and 5Ω for mA ranges

±0.1% of input range ±1 LSD (T/C CJC better than 1°C)

4 per second, 14 bit resolution approximately

<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

Contacts SPDT 2 Amp resistive at 240V AC, >500,000 operations

Drive capability >10V DC in 500 minimum 0.01 to 1 Amp AC, 20 to 280Vrms, 47 to 63Hz

0 to 20mA, 4 to 20mA into 500 Ω max, 0 to 10V, 2 to 10V, 0 to 5V into 500 Ω min.

Control outputs have 2% over/under drive applied. Accuracy $\pm 0.25\%$ at 250Ω (degrades linearly to 0.5%

for increasing burden to specified limits)

Output 24VDC (nominal) into 910Ω minimum to power external devices

2 Wire RS485, 1200 to 19200 Baud, Modbus and ASCII protocol (selectable)

Selects between 2 setpoints or Auto/Manual control. Volt free or TTL 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 Power Supply

Front Panel Protection

Standards

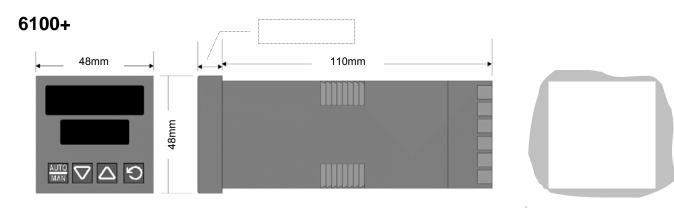
0 to 55°C (-20 to 80°C storage), 20% to 95% RH non-condensing

100 to 240V 50/60Hz 7.5VA (optional 20 to 48V AC 7.5VA/22 to 65V DC 5 watts)

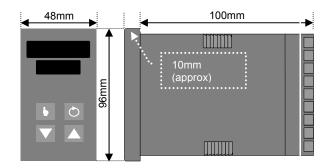
IEC IP66 (Behind panel protection is IP20)

CE, UL & ULC recognised

Dimensions

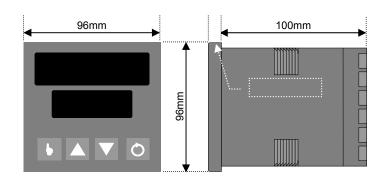


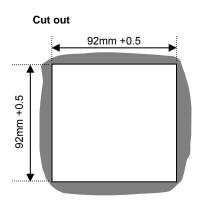
8100+





4100+











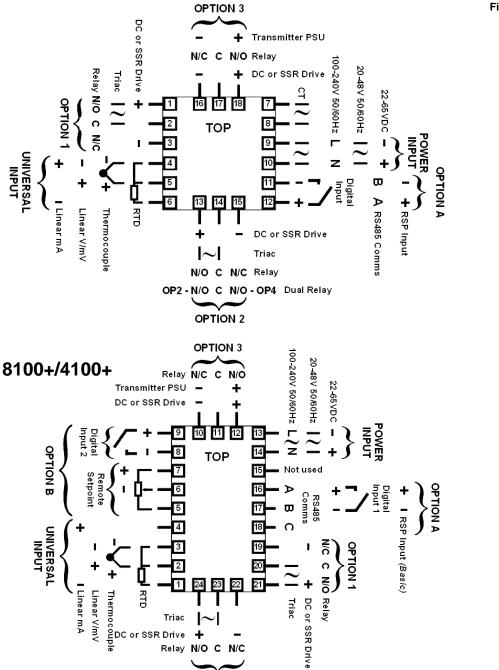




Wiring Connections

6100+





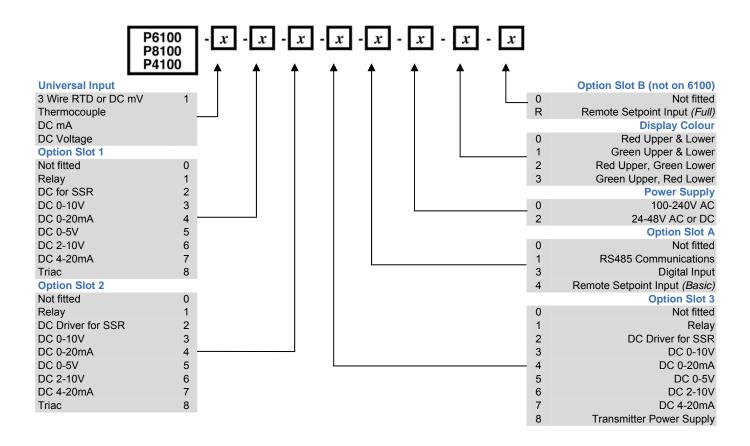




OPTION 2



Ordering Code



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Brochures and datasheets are available for the complete range of West Control Solutions products, contact your local sales office or visit our website at: www.west-cs.com for more information.

Specifications are subject to change without notice, as a result of continual development and improvement, E&OE





