

WEST - P6100, P8100, P4100, TEMPERATURE AND PROCESS CONTROLLERS

P8100-21000000 Panel mount PID-controller, 96x48mm front plate PLUS

PLUS

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- · Jumperless configuration
- Auto detected hardware
- Process and loop alarms
- Modbus and ASCII comms

PRODUCT DESCRIPTION

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

They have a universal input and are available with a red and green displays. Plug-in modules allow up to 2 alarm relays (latching or non-latching), PV retransmission, remtote set point (RSP) or transmitter PSU



SPECIFICATION

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 (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
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)

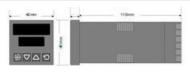
DC Linear	0 to 20mA, 4 to 20mA, 0 to 50mV, 10 to 50mV, 0 to 5V, 1 to 5V, 0 to 10V, 2 to 10V. Scaleable -1999 to 9999, with adjustable decimal point	
Impedance	>10M Ω for Thermocouple and mV ranges, 47K Ω for V ranges and 5 Ω for mA ranges	
Accuracy	±0.1% of input range ±1 LSD (T/C CJC better than 1°C)	
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 & Operations:		
Control & alarm relays	Contacts SPDT 2 Amp resistive at 240V AC, >500,000 operations	
Control SSR driver outputs	Drive capability >10V DC in 500□ 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 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)	
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	

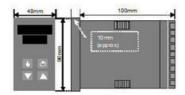
Operating & Environmental:		
Temperature & RH	0 to 55°C (-20 to 80°C storage), 20% to 95% RH non-condensing	
Power supply	100 to 240V 50/60Hz 7.5VA (optional 20 to 48V AC 7.5VA/22 to 65V DC 5 watts)	
Front panel protection	IEC IP66 (Behind panel protection is IP20)	
Standards	CE, UL & ULC recognised	

DIMENSIONS

6100+



8100+

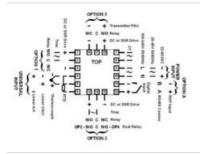


4100+

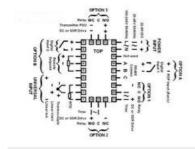


WIRING

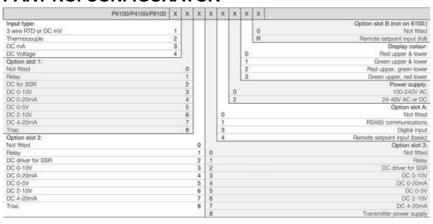
6100+



8100+/4100+



PART NO. CONFIGURATOR



SPECIFICATIONS

Mounting	Panel mount
Panel size	48x96 mm
Power Supply AC max	240 V
Power Supply AC min	100 V

