

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

Input

RTD

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. 4 button operation, dual 4 digit 10mm & 8mm high (6100+, 8100+) and 13mm & 10mm high (4100+) Human Interface 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 Thermocouple 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. DC Linear Scaleable -1999 to 9999, with adjustable decimal point Impedance >10M\Omega for Thermocouple and mV ranges, 47K\Omega for V ranges and 5Ω for mA ranges Accuracy $\pm 0.1\%$ of input range ± 1 LSD (T/C CJC better than 1°C) Sampling 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 Sensor Break Detection 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 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

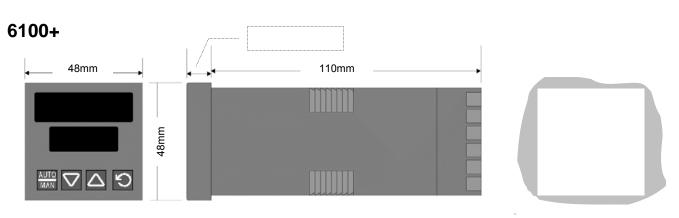




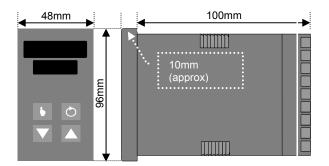
Operating & Environmental

Temperature & RH 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 CE, UL & ULC recognised

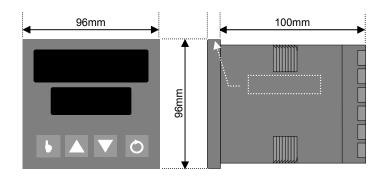
Dimensions



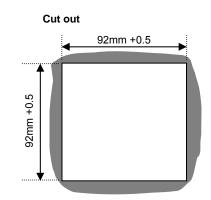
8100+



4100+







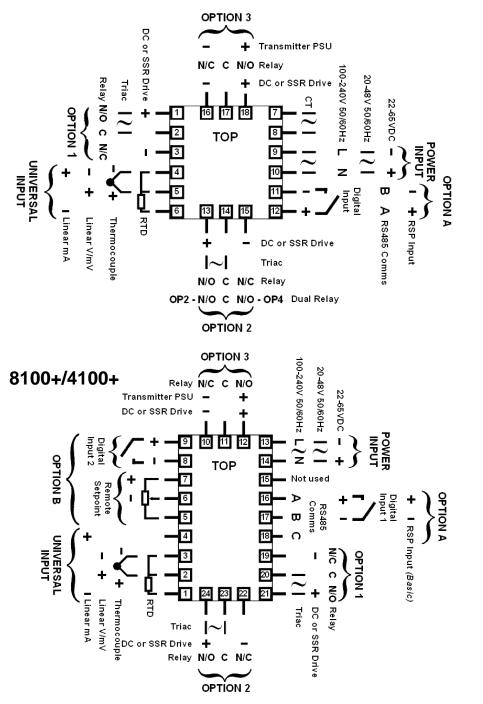




Field Reconfiguration

Wiring Connections

6100+







Ordering Code

	P6100 -	<i>x</i> - <i>x</i>	- x -	<i>x</i> - <i>x</i>	- x	- <u>x</u> - <u>x</u>]	
	P4100		•	A A	•	A A		
Input Type								Option Slot B (not on 6100
3 Wire RTD or DC mV	1						0	Not fitte
Thermocouple	2						R	Remote Setpoint Input (Full
DC mA	3							Display Colou
DC Voltage	4						0	Red Upper & Lowe
Option Slot 1							1	Green Upper & Lowe
Not fitted	0						2	Red Upper, Green Lowe
Relay	1						3	Green Upper, Red Lowe
DC for SSR	2							Power Supply
DC 0-10V	3						0	100-240V AC
DC 0-20mA	4 —						2	24-48V AC or DC
DC 0-5V	5							Option Slot A
DC 2-10V	6						0	Not fitted
DC 4-20mA	7						1	RS485 Communications
Triac	8						3	Digital Inpu
Option Slot 2							4	Remote Setpoint Input (Basic
Not fitted	0							Option Slot 3
Relay	1						0	Not fitted
DC Driver for SSR	2						1	Relay
DC 0-10V	3						2	DC Driver for SSR
DC 0-20mA	4 —						3	DC 0-10V
DC 0-5V	5						- 4	DC 0-20mA
DC 2-10V	6						5	DC 0-5\
DC 4-20mA	7						6	DC 2-10V
Triac	8						7	DC 4-20mA
							8	Transmitter Power Supply

West Control Solutions – International Sales and Support

CHINA

Danaher Setra-ICG (Tianjin Co., Ltd. No.28 Wei 5 Road, The Micro-Electronic Industry Park TEDA, Xiqing District, Tianjin 300385 Tel: +86 22 8398 8098 Fax: +86 22 8398 8099 Sales Hotline: 400 666 1802 e-mail: tc.sales@danaher.com

FRANCE

Hengster SA, 69 Rue de la Belle Etoile Bat D - ZI Paris Nord II, 95700, Roissy Tel: +33 (1) 77 80 90 40 Fax:+33 (1) 77 80 90 50 e-mail: info@westinstruments.com

GERMANY

PMA Prozeß- und, Maschinen- Automation GmbH, Miramstraße 8, 7D -34123 Kassel Tel: +49 (561) 505-1307 Fax: +49 (561) 505-1710 e-mail: mailbox@pma-online.de

UNITED KINGDOM

West Control Solutions The Hyde Business Park, Brighton, East Sussex, BN2 4JU Tel: +44 (0)1273 606271 Fax: +44 (0)1273 609990 e-mail: info@westinstruments.com

USA

West Control Solutions 1675 Delany Road, Gurnee, IL 60031-1282 Tel: 800 866 6659 Fax: 847 782 5223 e-mail: custserv.west@dancon.com

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

