

West P6170 ¹/₁₆ Din Valve Motor Controller

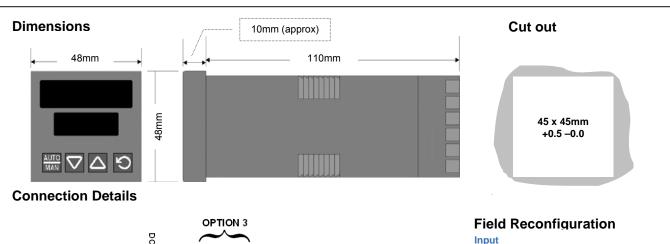


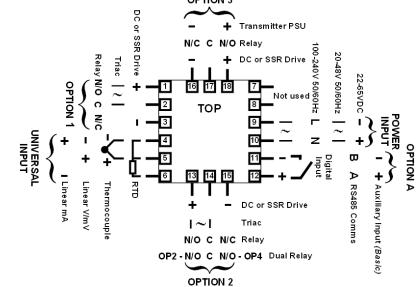
The new Plus Series VMD Controllers have been specifically designed for open loop valve motor drive applications and feature the improved Plus Series interface and greater field flexibility.

- Jumperless Configuration
- Auto Detected Hardware
- Process & Loop Alarms
- Auto or Manual Tuning
- Motorised Valve Control
- Valve Position Indication
- Modbus Communications
 Remote/Dual Setpoint Options

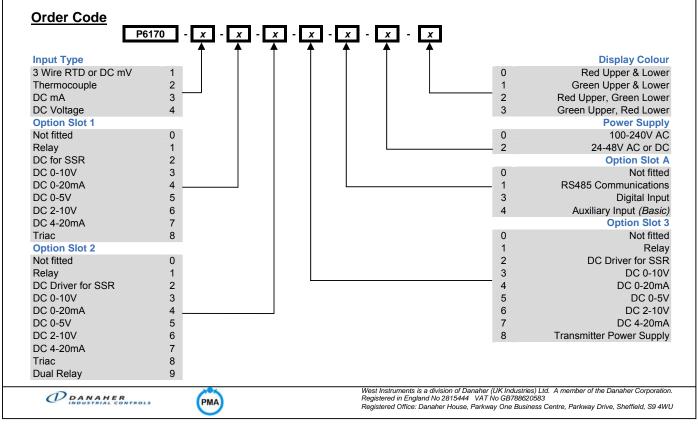
Technical Data	
Features	Full DID with Dro tune. Calif tune and menual tuning medea
Control Types	Full PID with Pre-tune, Self-tune and manual tuning modes.
Valve Control	Open Loop Valve Motor Drive.
Auto/Manual	Selectable from front panel or via digital input, with bumpless transfer.
Output Configuration	Up to 4 possible, two required for valve control, additional outputs for 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 configuration socket (communications 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, 50 Ω 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 & Options	
Control & Alarm Relays	Contacts SPDT 2 Amp resistive at 240V AC (120V AC Max for direct VMD), >500,000 operations. (1A 2xSPST 200,000 operations for Dual Relay)
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. 140V Max for direct VMD.
DC Linear Outputs	0 to 20mA, 4 to 20mA into 500Ω max, 0 to 10V, 2 to 10V, 0 to 5V into 500Ω min. Accuracy $\pm 0.25\%$ at 250Ω (degrades linearly to 0.5% for increasing burden to specified limits) Retransmit of PV or SP Only.
Transmitter Power Supply	Output 24VDC (nominal) into 910 Ω minimum to power external devices
Serial Communications	2 Wire RS485, 1200 to 19200 Baud, Modbus protocol
Digital Input	Selects between 2 setpoints or Auto/Manual control. Volt free or TTL input
Remote Setpoint / Valve Position Auxiliary Input Operating & Environmental	0 to 20mA, 4 to 20mA, 0 to 5V, 1 to 5V, 0 to 10V or 2 to 10V. Scaleable -1999 to 9999. For Valve Position Indication or Remote Setpoint Input.
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
In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document P6170 Spec sheet - 01/06	



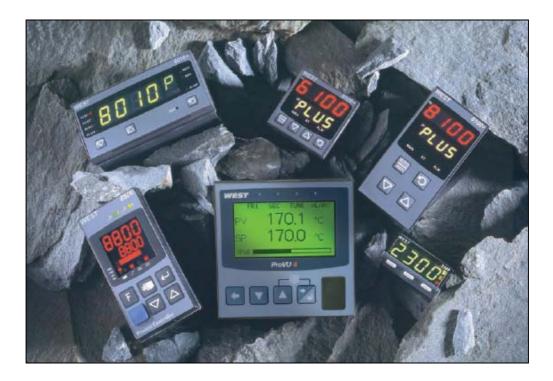




Jumper-free configuration for any type (no extra parts required) **Option Slot 1** Part Number Relay OutputPO1-C10 Linear mA/V DC Output PO1-C21 Triac Output PO1-C80 **Option Slot 2** Part Number Relay Output PO2-C10 Linear mA/V DC Output PO2-C21 SSR Driver Output PO2-C50 Dual Relay Output.....PO2-W09 Option Slot 3 Part Number Relay Output PO2-C10 Linear mA/V DC Output PO2-C21 SSR Driver Output PO2-C50 24VDC Transmitter PSU...... PO2-W08 **Option Slot A** Part Number Digital Input..... PA1-W03 Auxiliary Input (Basic) PA1-W04 RS485 Comms..... PA1-W06







Official UK Suppliers & Stockists of:



Temperature & Process Input Controllers

- Single Loop Controllers
- Multi-Loop Controllers
- Programmable Controllers
- Valve Motor Drive Controllers
- Process Indicators

Please contact our sales and service teams at the following address for further product information.

H203 0710



Tempcon Instrumentation Ltd. Unit 19, Ford Lane Business Park, Ford Lane Ford, Nr. Arundel, West Sussex. BN18 0UZ Tel: ++44 (0) 1243 558270 Fax: ++44 (0) 1243 558288 Email: <u>info@tempcon.co.uk</u> Web site: www.tempcon.co.uk