



## West 4170+ 1/4 DIN Single Loop Process Controller

### Product Images



## Short Description

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The West 4170+ is a process controller designed specifically to drive valve motors, with a unique VMD tuning algorithm.

## Description

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**The West 4170+ single loop process controller is designed specifically designed specifically for open loop, valve motor drive (VMD) applications and has 3-point stepping control.**

The 4170+ incorporates advanced tuning algorithms, with selectable pre-tune and self-tuning for easier setup. The self-tune also reduces output activity to an absolute minimum without compromising control quality, thereby reducing wear and tear on mechanical components such as valves, contactors and relays. In test, these controls have cut down valve oscillation from 30 to 40 times a minute to just a few. Pre-tune plus self-tuning has also been shown to get on control up to 3 times faster.

In addition to the VMD outputs, further output options exist which can be designated as outputs for alarms, 24 VDC transmitter power supply, retransmit process value or setpoint.

- 3-Point Stepping valve control
- Valve position indication
- Jumperless configuration
- Auto or Manual Tuning
- Process and loop alarms
- Remote/dual setpoint options
- Dual 4-digit LED displays
- Universal Input for Thermocouple, RTD, DC, linear mA/V/mV, user selectable
- Up to 4 outputs; relay, DC linear, SSR driver, Triac, Transmitter Power Supply
- Modbus communications
- Program security.

## Additional Information

Country of Manufacture	United Kingdom	
Explanation	<b>Product Category:</b>	Single Loop controller
	<b>Dimensions and size:</b>	96mm x 96mm x 100mm (HxWxD), 1/4 DIN
	<b>Primary Input Type:</b>	Universal (TC, RTD, DC linear V, DC linear mA/mV)
	<b>Other Inputs:</b>	1 digital or 1 Remote setpoint
	<b>Output Type:</b>	Relay, DC linear, SSd; Triac, 24V transmitter power supply
	<b>Max. Number of Outputs:</b>	5
	<b>Control Type:</b>	PID with TPSC (VMD), Manual, Alarm, Ramp to setpoint
	<b>Power Supply:</b>	100–240V AC 50–60Hz 20–48V AC 50/60Hz 22–65 V DC
	<b>Communications:</b>	RS-485 serial (Modbus®)
	<b>Panel Sealing:</b>	IP66
	<b>Certifications:</b>	CE, UL, ULC, CSA
	<b>Software Tools:</b>	Plus Series Configurator
Brand	West	
Display Colour	Red, Green	
Display Digits	4	
Input Type	Thermocouple, RTD, Linear	
Typical applications	Industrial	



## Additional Options

<b>Input Type</b>	[1]3 Wire RTD or DC mV
	[2]Thermocouple
	[3]DC mA
	[4]DC Voltage
<b>Option Slot 1</b>	[0]Not Fitted
	[1]Relay Output
	[2]DC Drive Output for SSR
	[3]Linear 0-10v DC Output
	[4]Linear 0-20 mA DC Output
	[5]Linear 0-5v DC Output
	[6]Linear 2-10v DC Output
	[7]Linear 4-20mA DC Output
<b>Option 2</b>	[8]Triac Output
	[1]Relay Output
	[2]DC Drive Output for SSR
	[3]Linear 0-10V DC Output
	[4]Linear 0-20mA DC Output
	[5]Linear 0-5V DC Output
	[6]Linear 2-10V DC Output
	[7]Linear 4-20mA DC Output
<b>Option Slot 3</b>	[8]Triac Output
	[9]Dual Relay
	[0]Not Fitted
	[1]Relay Output
	[2]DC Drive Output for SSR
	[3]Linear 0-10V DC Output

	[4]Linear 0-20mA DC Output
	[5]Linear 0-5V DC Output
	[6]Linear 2-10V DC Output
	[7]Linear 4-20mA DC Output
	[8]Transmitter Power Supply
	[9]Dual Relay
<b>Option Slot A</b>	[0]Not Fitted
	[1]RS485 Serial Comms
	[3]Digital Input
	[4]Remote Setpoint/Aux Input (Basic)
<b>Power Supply</b>	[0]100-240V AC
	[2]24-48V AC or DC
<b>Display colour</b>	[0]Red Upper & Lower
	[1]Green Upper & Lower
	[2]Red Upper, Green Lower
	[3]Green Upper, Red Lower
<b>Option Slot B</b>	[0]Not Fitted
	[R]Remote Setpoint/Aux Input (Full)
<b>Manual Language</b>	[0]No Manual
	[1]English
	[2]French
	[3]German
	[4]Italian
	[5]Spanish
	[6]Chinese Mandarin
	[9]All European Languages (En/Fr/Gr/It/Sp) Concise Manuals
<b>Packing Options</b>	[0]Single Pack with Concise Manual

[1]Bulk Pack with 1 Concise Manual per unit - Minimum 20 pcs

[2]Bulk Pack No Manual - Minimum 20 pcs

[3]Bulk Pack with 1 Full Manual per unit - Minimum 20 pcs

[5]Single Pack with 1 Full Manual per unit