

# The + Series Indicators...

The 8010+ and 6010+ from West are a new range of digital panel indicators providing clear identifiable data, designed for use in a wide variety of applications. The 8010+ and 6010+ offer fast, highly visible, accurate and easy to read displays; together with quick and simple set-up procedures.

The 8010+ has a new optional changeable colour display - Green to Red or vice versa, designed for optimal ease of use. It can be set up to change colour on alarm, giving a highly visible indication if the process is outside set boundaries.

New to the + Series Indicators is multi-point scaling, tare function and improved flexibility. Plug-in modules allow PV retransmission or Transmitter Power Supply and up to 5 alarm relays on the 8010+ and up to 4 alarm relays on the 6010+ (latching or non-latching).

Our + Series digital panel indicators incorporate the great new features of the PLUS range - self-recognising and auto-set up of output modules and easy HMI - improving product performance and versatility, making them easy to set up and use.

The 8010+ and 6010+ share the same styling as the existing + Series models, maintaining the 'family' approach to the West product range.

Some of their new features include:

- 50% less product set up time as a result of no link jumpers
- Self-recognition and auto-set up of option boards
- Improved, easy to use HMI
- PC Configuration
- Modbus and West ASCII Communications
- Stock levels are reduced by having one '+' range: output modules are changeable between indicators and controllers

For the full specifications and order codes, please see overleaf.



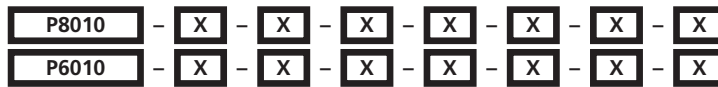
...so **adaptable**, you won't need anything else

## Technical Data

Features	
Output Configuration	<b>P8010 Only:</b> Up to 5 total. Max 3 single/2 dual relay, max 1 retransmit of PV, max 1 transmitter power supply <b>P6010 Only:</b> Up to 4 total. Max 3 single/1 dual relay, max 1 retransmit of PV, max 1 transmitter power supply
Alarms	Up to 5. Process high low or logical OR (direct or reverse acting). With adjustable hysteresis.
Viewable Values	Process variable, maximum value, minimum value and alarm 1 elapsed time since reset
Legends	<b>P8010 Only:</b> °C/°F LED. Labels for 27 other common units, mounted behind clear window
Human Interface	<b>P8010 Only:</b> 3 button operation, 4 digit 13mm high red, green or red/green display (colour change on alarm), plus 1 set-up, 5 alarm and 1 max and 1 min indicator <b>P6010 Only:</b> 3 button operation, 4 digit 10mm high red or green display, plus 5 alarm
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	>10MΩ for Thermocouple and mV ranges, 47KΩ for V ranges and 5Ω 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), high alarms activate for T/C, RTD and mV ranges, low alarms activate for mA or V ranges
Outputs & Options	
Single Alarm Relays	Contacts SPDT 2 Amp resistive at 240V AC, >500,000 operations. Latching or non-latching
Dual Alarm Relays	Two x SPST contacts with shared common. 2 Amp resistive at 240V AC, >200,000 operations. Latching or non-latching
SSR Driver Outputs	Drive capability >10V DC in 500Ω minimum
Triac Outputs	0.01 to 1 Amp AC, 20 to 280Vrms, 47 to 63Hz
DC Linear Retransmit Outputs	0 to 20mA, 4 to 20mA into 500Ω max, 0 to 10V, 2 to 10V, 0 to 5V into 500Ω min. Accuracy ±0.25% at 250Ω (degrades linearly to 0.5% for increasing burden to specified limits)
Transmitter Power Supply	24VDC (nominal) into 910Ω minimum to power external devices
Serial Communications	2 Wire RS485, 1200 to 19200 Baud, Modbus and ASCII protocol (selectable)
Digital Input	External reset of latched relay, stored alarm 1 elapsed time, stored min/max PV values or initiate tare function. Volt free or TTL input
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. Pollution Degree 2, Installation Category II

In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document

## Order Code



Input Type	
3 Wire RTD or DC mV	1
Thermocouple	2
DC mA	3
DC Voltage	4
Option Slot 1	
Not Fitted	0
Relay	1
DC Driver for SSR	2
DC 0-10V	3
DC 0-20mA	4
DC 0-5V	5
DC 2-10V	6
DC 4-20mA	7
Triac	8
Option Slot 2	
Not fitted	0
Relay	1
DC Driver for SSR	2
DC 0-10V	3
DC 0-20mA	4
DC 0-5V	5
DC 2-10V	6
DC 4-20mA	7
Triac	8
Dual Relay	9

Display Colour	
0	Red (Fixed)
1	Green (Fixed)
4 (P8010 Only)	Red/Green Colour Change
Power Supply	
0	100-240V AC
2	24-48V AC or DC
Option Slot A	
0	Not fitted
1	RS485 Communications
3	Digital Input
Option Slot 3	
0	Not fitted
1	Relay
2	DC Driver for SSR
3	DC 0-10V
4	DC 0-20mA
5	DC 0-5V
6	DC 2-10V
7	DC 4-20mA
8	Transmitter Power Supply
9	(P8010 Only) Dual Relay



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