

West P8010 1/8 Din Panel Indicator



The P8010 has multi-point scaling, tare function and improved flexibility. It is available with red, green or green to red colour change displays. Plug-in modules allow up to five alarm relays (latching or non-latching), PV retransmission or transmitter PSU.

- Jumperless Configuration
- Auto Detected Hardware
- Up to 5 Alarm Outputs
- Modbus & ASCII Comms
- Min/max Value Hold
- Tare (auto-zero) Function
- Multi-point Scaling
- Colour Change Display Option



Technical Data

Features

Output Configuration

Up to 5 total. Max 3 single/2 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

°C/°F LED. Labels for 27 other common units, mounted behind clear window

Human Interface

3 button operation, 4 digit 13mm high display red, green or red/green (colour change on alarm), plus 1 set-up, 3 alarm 1 max and 1 min indicator

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.

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.

Transmitter Power Supply

Accuracy ±0.25% at 250Ω (degrades linearly to 0.5% for increasing burden to specified limits)

Serial Communications

Output 24VDC (nominal) into 910Ω minimum to power external devices

Digital Input

2 Wire RS485, 1200 to 19200 Baud, Modbus and ASCII protocol (selectable)
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)

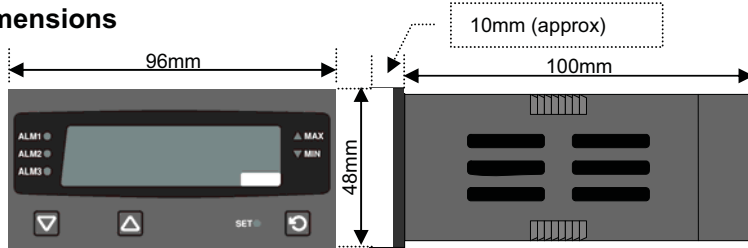
Standards

CE, UL & ULC recognised. Pollution Degree 2, Installation Category II

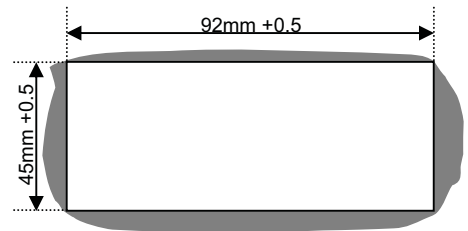
In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document
P8010 Spec sheet - 03/05

Call us now on **01706 216667**

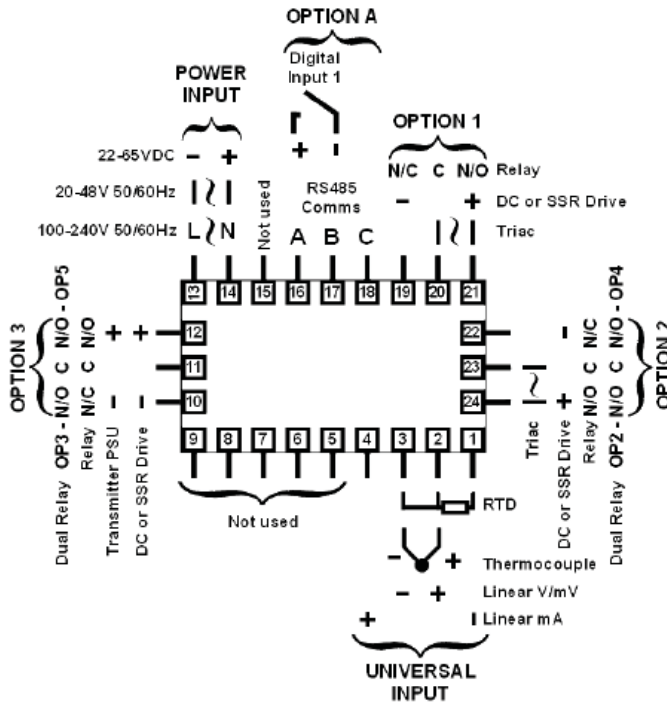
Dimensions



Cut out



Connection Details



Field Reconfiguration

- Jumper**
Jumper-free configuration for any type (no extra parts required)
- Option Slot 1** **Part Number**
Relay Output..... **PO1-C10**
Linear mA/V DC Output..... **PO1-C21**
SSR Driver Output..... **PO1-C50**
Triac Output..... **PO1-C80**
- Option Slot 2** **Part Number**
Relay Output..... **PO2-C10**
Dual Relay Output..... **PO2-W09**
Linear mA/V DC Output..... **PO2-C21**
SSR Driver Output..... **PO2-C50**
Triac Output..... **PO2-C80**
- Option Slot 3** **Part Number**
Relay Output..... **PO2-C10**
Dual Relay Output..... **PO2-W09**
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**
RS485 Comms..... **PA1-W06**

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 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	Fixed Red
1	Fixed Green
4	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	Dual Relay

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