West 8080 1/8 DIN Dual Colour Indicator

The West 8080 offers high accuracy temperature or process inputs. The custom-designed display is larger than other instruments of this size, and can be set to change colour to indicate alarm status.

- **Large Five Digit Display**
- **Colour Change On Alarm**
- **Min/Max Value Hold**
- **2 Process Alarms**
- **Security Lock**
- **Process Transmitter PSU**
- **PV retransmit option**
- **RS485 comms option**

Technical Data

Features

Output Configuration	Up to 3 total., max 2 for Alarms, max 1 for retransmission of PV
Alarm Types	Process high, process low, direct acting, process high, process low reverse and logical OR
Viewable Values	Process variable, alarm values, maximum value, minimum value and elapsed time since reset
Human Interface	4 button operation, 5 digit 18mm high colour change display, plus set-up and alarm indicators

Temperature Version

Input	J, K, R, S, T, B, & N Thermocouple, 3 or 4 Wire PT100, 50Ω per lead maximum (balanced)
Impedance	>100MΩ for Thermocouple
Accuracy	+/- 0.1% of input span +/- 1 LSD (T/C CJC better than 0.5°C)
Sampling	4 per second, 14 bit resolution
Sensor Break Detection	<2 secs, all alarms activate

DC Process Version

Input	0-20/4-20/10-50mA, 0-5/1-5/0-10/2-10V, +/-100mV, +/-1V, +/-10V
Scaling	-19999 to99999, dec point as required. Up to 10 scaling points for non-linear applications
Impedance	>100KΩ for mV range, >950KΩ for V ranges, 10Ω for 20mA ranges and 1Ω for 50mA range
Accuracy	+/- 0.01% of input span typical (+/- 0.05% max) +/- 1 LSD
Sampling	10 per second, 14 bit resolution
Sensor Break Detection	<2 secs (except zero based ranges), all alarms activate
Totalising of PV by Interval	Seconds, minutes or hours
Transmitter Power Supply	20-28V DC (24V nominal), max load 910Ω (22mA at 20V). Fitted as standard

Outputs & Options

Alarm 1	Open collector NPN transistor (30VDC 100 mA max) and relay (Contacts SPDT 3Amp
Alarm 2	Open collector NPN transistor (30VDC 100mA max) fitted as standard. Optional relay (Contacts SPDT 3Amp resistive at 240VAC/5Amp at 110V), non-latching
Retransmit Output	0-20/4-20mA into 500Ω max, 0-10/0-5V into 500Ω min. Accuracy typically +/- 0.25% 250mS update
Digital Input	External security lock (also Tare function on Process Version). Volt free or TTL compatible
Communications	2 wire RS485, 1200 to 9600 baud. ASCII protocol

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 50V AC 7.5VA/22 to 55V DC 5W)
Front Panel Protection	IEC IP66 (Behind panel protection is IP20)
Approvals and Certification	CE, UL & UIC

Call us now on **01706 216667**

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Dimensions

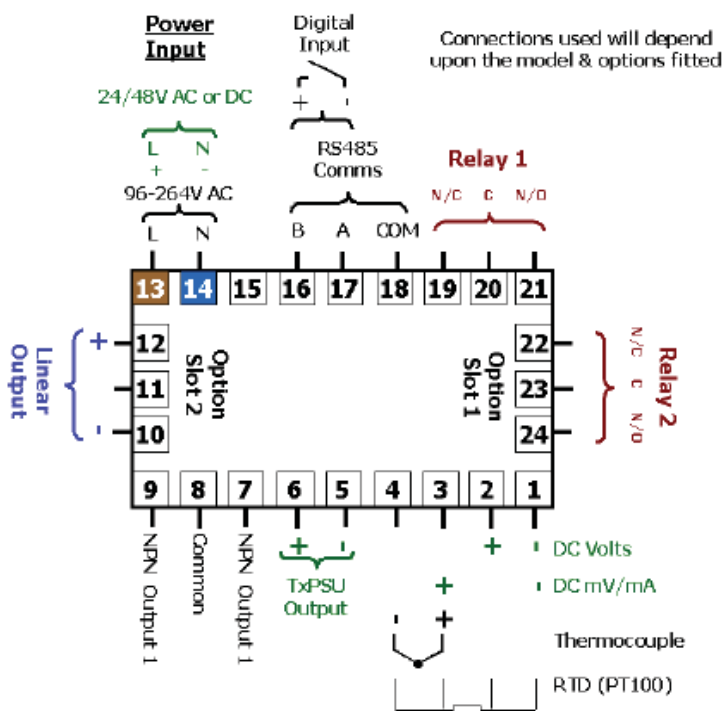96mm
10mm (approx)
100mm
48mm

Cut out

92mm +0.5
45mm +0.5
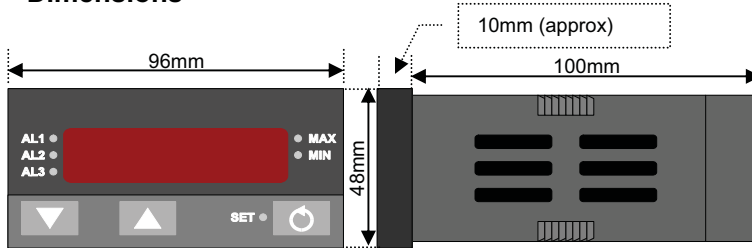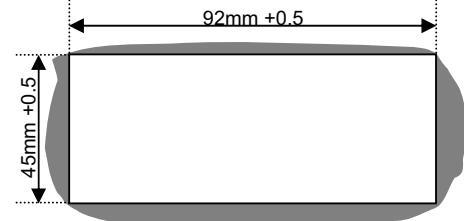
Connection Details

Field Reconfiguration

Input
Temperature Version – Configurable for probe type and range
Process Version – Configurable for signal type and range
Relay 1
Type is fixed as Alarm 1
Option Slot 1
Configurable as Alarm 2 via plug-in relay module
Option Slot 2
Configurable as Analogue DC Re-Transmit of PV using plug-in module
Option Slot 3
Temperature Version – Configurable for RS485 comms or Security Lock, via plug-in modules
Process Version – Configurable for RS485 comms or Tare/Security Lock, via plug-in modules

Order Code

N8080 - x - x - x - x - x

Input Type	
Temperature (Thermocouple/RTD)	1
DC Process (mV/VmA)	2

Option Slot 1	
No option fitted	0
Alarm 2 – Relay Output	1

Option Slot 2	
No option fitted	0
Analogue DC Re-Transmit PV	3

Options & Power Supply	
100-240V AC line supply	0
20-50V AC or DC line supply	2

Option Slot 3	
No option fitted	0
RS485 Comms	5
Digital Input	6

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

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