WEST Temperature Control Solutions

# Product **Specification**

## 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

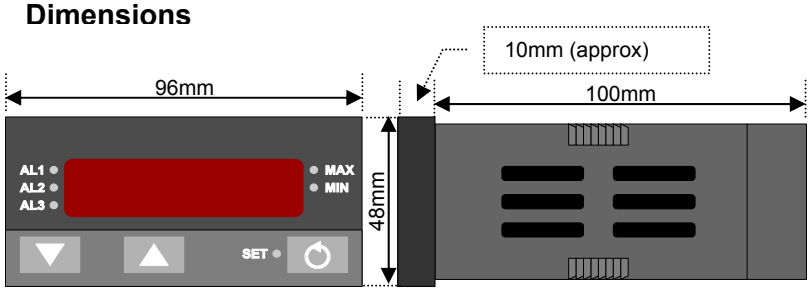
| | |
|---|---|
| **Features** | |
| Output Configuration | Up to 3 total., max 2 for Alarms, max 1 for retransmission of PV |
| Alarm Types | Process high, process low, direct acting, process high, process low reverse and logical OR |
| Viewable Values | Process variable, alarm values, maximum value, 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 |

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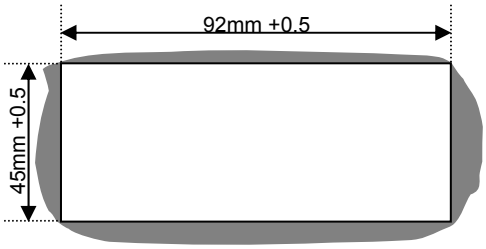
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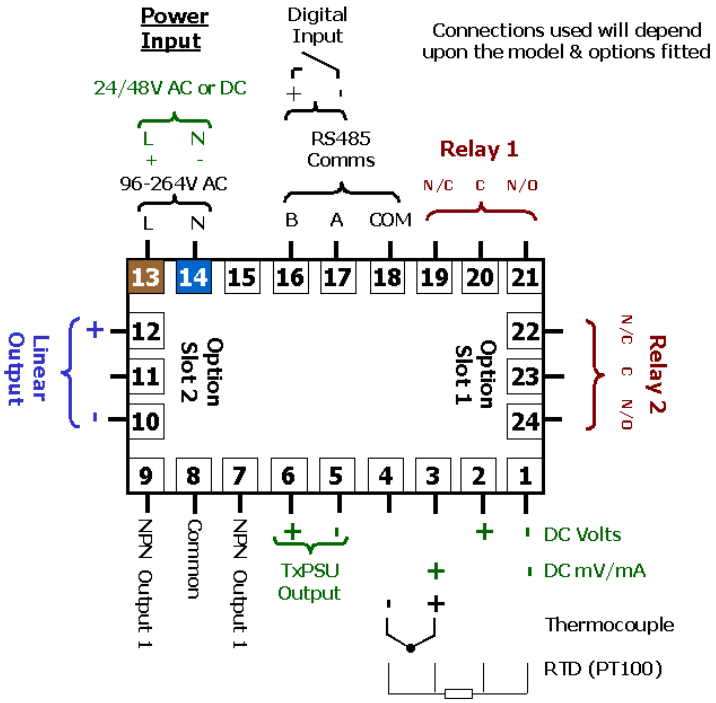
## Dimensions




## Cut out




## 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**

| | |
|---|---|
| 0 | 100-240V AC line supply |
| 2 | 20-50V AC or DC line supply |

**Option Slot 3**

| | |
|---|---|
| 0 | No option fitted |
| 5 | RS485 Comms |
| 6 | Digital Input |

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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