West 8080
1/8 DIN Dual Color 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 color to indicate alarm status.

- Large Five Digit Display
- Color 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 color 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, high alarms activate |

**DC Process Version**

| Input | 0-20/4-20/10-50mA, 0-5/1-5/0-10/2-10V, +/-100mV, +/-1V, +/-10V |
| Scale | -19999 to 99999, 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), low 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 resistive at 240VAC/5Amp at 110V), latching or non-latching. Fitted as standard |
| 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 | 90 to 264V 50/60Hz (optional 20 to 50V AC/DC), approx 4 Watts |
| Front Panel Protection | IEC IP66 (Behind panel protection is IP20) |
| Approvals and Certification | CE, UL & ULc |
Connection Details

- **Power Input**
  - 24/48V AC or DC
  - 96-264V AC

- **Digital Input**
  - RS485 Comms
  - N/C, C, N/O

- **Relay 1**
  - Type is fixed as Alarm 1

- **Relay 2**
  - Configurable as Alarm 2 via plug-in relay module

- **Linear Output**
  - Configurable as Analogue DC Re-Transmit of PV using plug-in module

- **Option Slot 3**
  - Configurable for RS485 comms or Security Lock, via plug-in modules

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

- **Input type**
  - Temperature (Thermocouple/RTD) 1
  - DC Process (mV/VmA) 2

- **Output Slot 1**
  - No option fitted 0
  - Alarm 2 – Relay Output 1

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

- **Options and Power Supply**
  - 90-264V AC line supply 0
  - 20-50V AC or DC line supply 2
  - RS485 Comms 5
  - Digital Input 6

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