

# 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
Scaling	-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

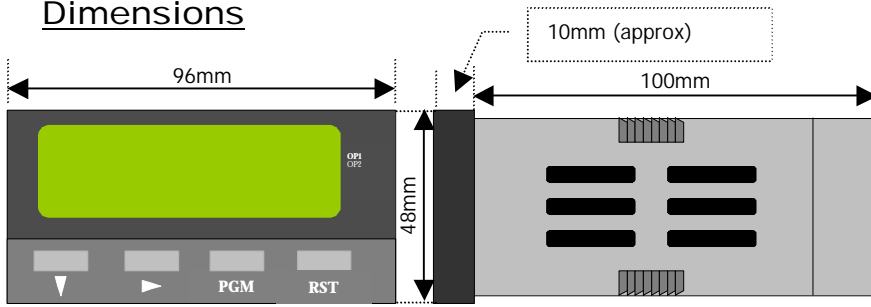
#### Outputs & Options

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

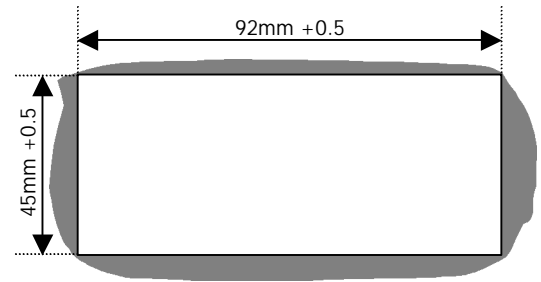
#### Operating & Environmental

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

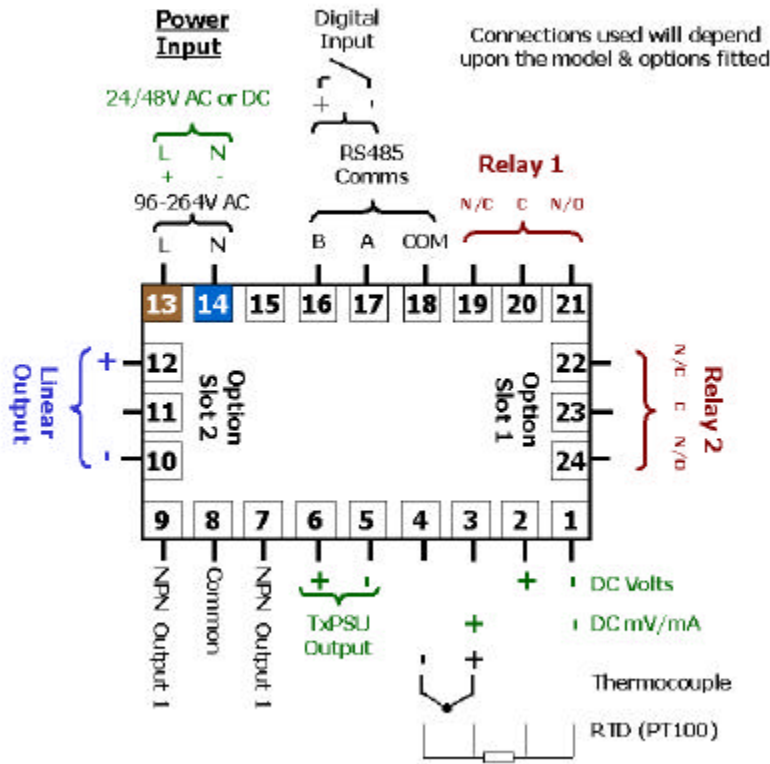
## Dimensions



## Panel 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

N8081/ Z x x x / x / x

### 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

0	90-264V AC line supply
2	20-50V AC or DC line supply

### Output Slot 3

0	No option fitted
5	RS485 Comms
6	Digital Input

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**ISE, Inc.**

10100 Royalton Rd.  
Cleveland, OH 44133 USA  
Tel: (440) 237-3200 • Fax: (440) 237-1744

### Toledo, OH area:

417 Tomahawk Dr.  
Maumee, OH 43537  
Tel: (419) 893-3330 • Fax: (419) 893-2151