100 Series

contrec

MODEL 150A

FEATURES

- Four Process Alarms
- Non-linear Signal Correction
- Process Signal Bar Graph Display
- Powered by a 4-20mA Loop
- Watertight to IP67 (Nema 4X)
- Panel, Wall and Pipe Mounting
- CE Compliant

CE

LOOP POWERED
Process Indicator

The 150A Process Indicator accepts a 4-20mA signal from a wide range of transducers such as Pressure and Temperature Transmitters, Weigh Scales, pH Sensors, Flowmeters or Level Transmitters. The indicator will display the signal on the bar graph and the scaled process variable range on a large LCD display.

ACCURACY   •   QUALITY   •   PERFORMANCE

Field Mounting Process Indicator

PROVEN IN THOUSANDS OF FIELD INSTALLATIONS THROUGHOUT THE WORLD.

The 150A is a high accuracy Process Indicator designed to operate with analogue output sensors. Having an IP67 weatherproof case, tactile keyboard and various mounting options, makes it a very versatile unit.

Solid state relay outputs provide up to four level alarms and 25 point non-linearity correction table allows the instrument to be programmed for non-linear signals.

The process indicator is powered entirely from the 4-20mA current loop and, therefore, requires no external power or batteries.

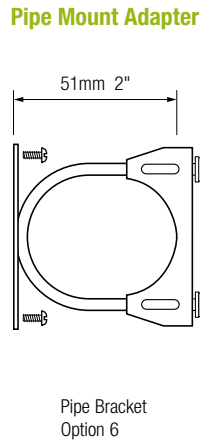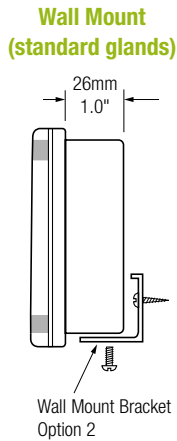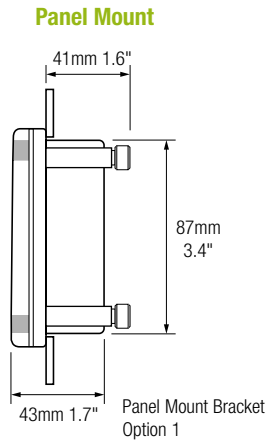The instrument is fully programmable, with set-up parameters such as span, offset, alarm levels, etc, stored in a non-volatile memory which will retain all data for more than 10 years without power.

The monitor is housed in a rugged, yet attractive, IP67 (Nema 4X) polycarbonate enclosure which is completely watertight. A wall mounting bracket (no gland holes) is supplied as standard, while panel and pipe mounting brackets are available as options.

GENERAL SPECIFICATIONS

Operating

Temperature Limits: −20 to +60°C, −4 to +140°F

Enclosure

Cable Entry: By cable gland
Materials: Polycarbonate and ABS

Display

Level: 20 segment LCD bar graph
Level Span: 0...100% proportional to input signal. Non-inverting tanks - 0% equals 4mA and 100% is 20mA. Inverting tanks - 0% equals 20mA and 100% is 4mA
Contents: 7 digit 12mm (0.48") high LCD (continuously powered) with $4\frac{1}{2}$ digital resolution and trailing zeros
Interference: CE compliance

4-20mA

Resolution and Linearity: 0.05% of span
Accuracy: 0.05% of span @ 25°C, 0.1% (typically) of span full temperature range
Update Time: 0.5 second
Connection: 2 wire
Voltage Drop: 2.5V maximum

High & Low Alarms

Type: 4 x open collector outputs suitable for driving DC solenoid or external relays. The outputs provide: 1. high-high, 2. high, 3. low, 4. low-low
Switching Power: 200mA, 30Vdc maximum
Saturation Voltage: 0.8Vdc typical across the output in the "ON" state
Isolation: All outputs are separately opto-isolated

DIMENSIONS

Overall Sizes

151mm (5.9") width
98mm (3.9") height
43mm (1.3") depth

Panel Mount

41mm 1.6"
87mm 3.4"
43mm 1.7"
Panel Mount Bracket Option 1

Wall Mount (standard glands)

26mm 1.0"
Wall Mount Bracket Option 2

Pipe Mount Adapter

51mm 2"
Pipe Bracket Option 6

TERMINAL DESCRIPTIONS

Terminal Inputs & Outputs			
Number		**Number**	
1	Low-low Alarm (−)	7	High Alarm (−)
2	Low-low Alarm (+)	8	High Alarm (+)
3	4-20ma Input (−)	9	High-high Alarm (−)
4	4-20ma Input (+)	10	High-high Alarm (+)
5	Low Alarm (−)		
6	Low Alarm (+)		

PRODUCT CODES

Product Code & Mounting Types		
150A	**•**	**Process Indicator**
Enclosure Mounting	0	Wall Mounting (no gland holes)
	1	Panel Mount Brackets
	2	Wall Mounting (standard glands)
	6	Pipe Mount Adapter

Typical Part Number: 150A .2

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