



## 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

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.



# 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,

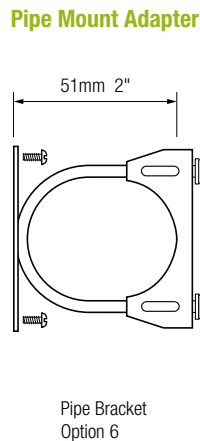
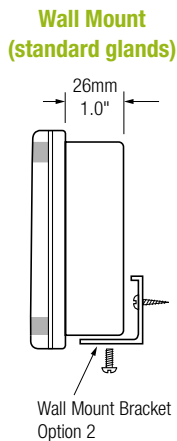
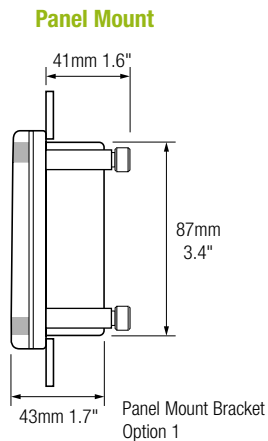
alarm levels, etc, stored in a non-volatile memory which will retain all data for more than 10 years without power.

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.

## DIMENSIONS

### Overall Sizes

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



## 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		
<b>150A</b>	•	<b>Process Indicator</b>
<b>Enclosure</b>	<b>0</b>	Wall Mounting (no gland holes)
<b>Mounting</b>	<b>1</b>	Panel Mount Brackets
	<b>2</b>	Wall Mounting (standard glands)
	<b>6</b>	Pipe Mount Adapter

Typical Part Number: 150A .2

## Instruments within the Contrec family:

**100 Series** – Accurate process instruments for field mounting applications

**200 Series** – Intrinsically safe, precise and reliable process instruments

**400 Series** – Rugged and dependable batch and flow control solutions

**505 Series** – Next generation flow instruments for a variety of applications

**515 Series** – Precise flow and batch control for more complex applications

**1000 Series** – Robust load computers for petroleum and chemical applications

**TRAC 40** – Vehicle mount custody transfer approved registers



**Contrec Manufacturing (UK) Ltd**  
Riverside, Canal Road  
Sowerby Bridge  
West Yorkshire HX6 2AY

**t** +44 (0)1422 829944  
**f** +44 (0)1422 829945  
**e** admin@contrec.co.uk  
**w** www.contrec.co.uk

**SALES & TECHNICAL SUPPORT:**  
**+44 (0)1422 829944**  
**www.contrec.co.uk**

**Contrec Manufacturing Ltd**  
Manufacturing and Asia Sales:  
+44 (0)1422 829944  
admin@contrec.co.uk

**Contrec Europe Ltd**  
European, Middle East and Africa  
Sales: +44 (0)1422 829940  
sales@contrec.co.uk

**Contrec – USA**  
Americas & Canada Sales:  
+1 (0)205 685 3000  
customerservice@contrec-usa.com

**Contrec Systems PTY Ltd**  
Australasia Sales and South East Asia  
Support: +61 (0)413 505 114  
paul@contrec.com.au

## 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 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