

## MODEL 120A

### FEATURES

- Non-linear Tank Correction
- Four Level Alarms
- Fully Programmable
- Level Bar Graph Display
- Tank Contents Display
- Powered by 4-20mA Loop
- Panel, Wall and Pipe Mounting
- Watertight to IP67 (Nema 4X)
- CE Compliant



LOOP POWERED

## Level Monitor



The 120A Level Monitor accepts a 4-20mA signal from a wide range of level sensors, including Pressure Transmitters, Ultrasonic Sensors or Capacitance Probes, and displays both level and tank contents on a large LCD display.



# Field Mounting Level Monitor

PROVEN IN THOUSANDS OF FIELD INSTALLATIONS THROUGHOUT THE WORLD.

The 120A is a high accuracy Level Monitor designed to operate with analogue level 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 a 25 point non-linearity correction table allows the instrument to be programmed to fit most tanks.

The Level Monitor 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,

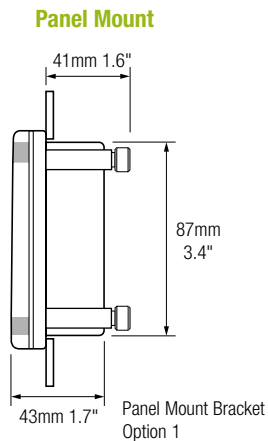
alarm levels, etc, stored in a non-volatile memory which will retain all data for more than 10 years without power.

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.

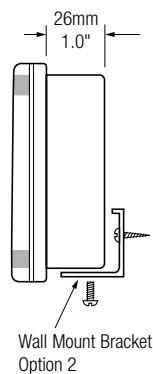
## DIMENSIONS

### Overall Sizes

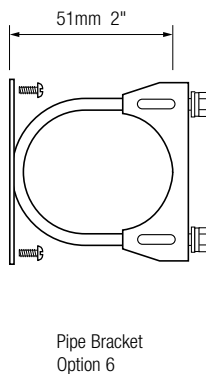
151mm (5.9") width  
98mm (3.9") height  
43mm (1.3") depth



### Wall Mount (standard glands)



### Pipe Mount Adapter



## TERMINAL DESCRIPTIONS

Terminal Inputs & Outputs			
Number		Number	
1	Low-low Alarm (-)	7	High Alarm (-) or Pulse (-)
2	Low-low Alarm (+)	8	High Alarm (+) or Pulse (+)
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		
120A	•	Level Monitor
Enclosure Mounting	0	Wall Mounting (no gland holes)
	1	Panel Mount Brackets
	2	Wall Mounting (standard glands)
	6	Pipe Mount Adapter

Typical Part Number: 120A .2

## 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<sup>1/2</sup> 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



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