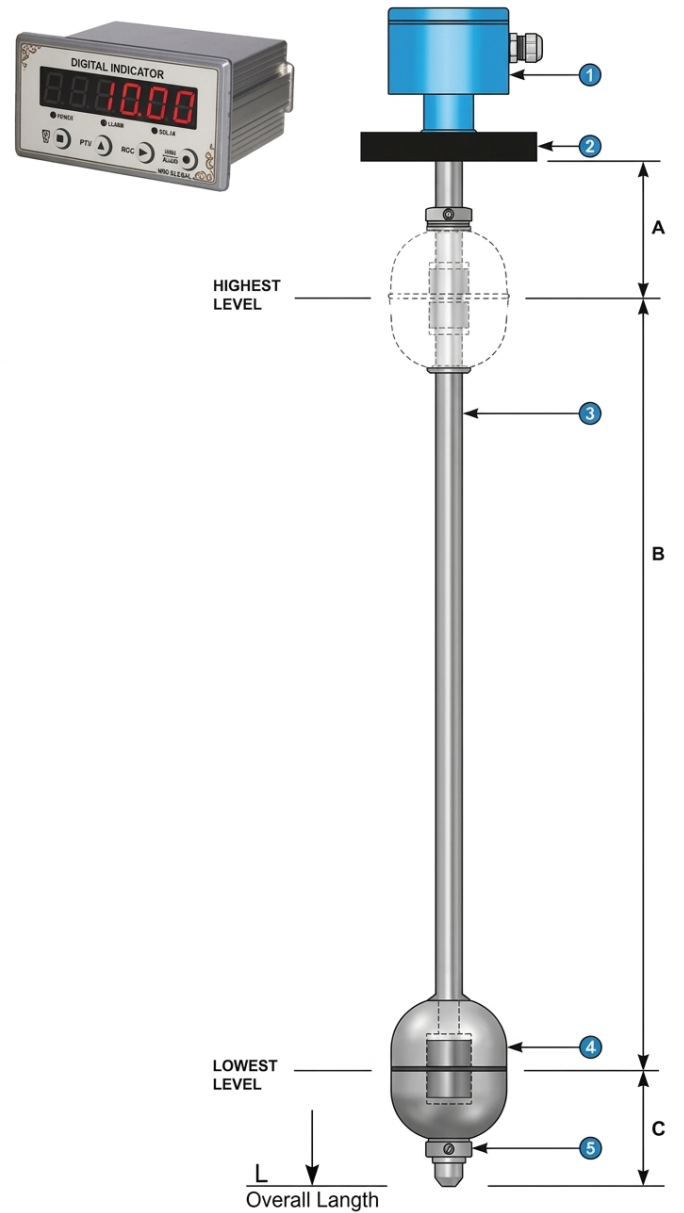


## Technical Data

- **Overall Length:** 300mm to 5000mm
- **Measuring Error:** +/- 0.25% of Span
- **Output Temperature Co-efficient:** +/- 0.007% / °C
- **Resolution:** 5mm / 10mm
- **Ambient Temperature:** -40 °C to 60 °C
- **Liquid Temp. Range:** -40 °C to 120 °C
- **Liquid Min. Density:** 0.8 gm/cc
- **Max. Pressure:** 10 Kg/cm<sup>2</sup>
- **Protection Category:** Weather Proof  
Ip66 to IS:2147  
(or)  
Flame proof Gr.  
IIA & IIB to IS:2148
- **Terminals:** Max. 1.5mm<sup>2</sup> Flexible
- **Cable Entry:** PG11 for Weather Proof  
: 3/4" ET for Flame Proof  
(Glands not Supplied)
- **Current Output:** 1) 2 Wire, 4.... 20 mA  
2) 3 Wire, 0-10VDC
- **Process Connection:** 1) Threaded  
2) Flanged  
3) Tri Clamp  
4) Others
- **Excitation Voltage:** 10 - 36 V DC
- **Loop Resistance:** Max. 1200 OHMs



**NOTE : Analog Output** : 4 mA @ Lowest Level  
: 20 mA @ Highest Level

**A - Top Dead Band**  
**B - Measuring Range**  
**C - Bottom Dead Band**

**1 - Electronic Housing**  
**2 - Mounting Flange**  
**3 - Stem**  
**4 - Float**  
**5 - Float Retainer**

## Float Operated Liquid Level Transmitters

- **Length:** Up to 5 metres
- **Wetted Parts:** Alloys or Engineering Plastic
- **Output:** Analog Output
- **Calibration:** Field Calibration

## CONSTRUCTION

A Float Operated Liquid Level Transmitter consists of a non-magnetic sealed stem containing a series of reed switches and resistors, a float carrying a magnet, a mounting adaptor (or flange), and an enclosure containing electronics.

## OPERATING PRINCIPLE

The stem carrying a series of reed switches and resistors forms a "Potentiometer" circuit which extends to the full indicating length of the transmitter. The reed switches are tapped at regular intervals, and this tap-off point is connected to electronics in the enclosure. As the float travels through the indicating distance, the magnet located within it taps off the reed switches, thereby varying the resistance fed to the electronics. This, in turn, converts the change in resistance to an industry-standard analog output.

## Float Operated Liquid Level Transmitters

Consider our transmitters for all your continuous liquid level monitoring needs like Water, diesel, lube oils and fuels, chemical, and petrochemical liquids. Here are just a few areas where transmitters can be used:

- **Utilities**
- **Beverage Industry**
- **Medical**
- **Pharmaceuticals**
- **Food Processing**
- **Breweries, etc.**

## LIMITATIONS

Float Operated Liquid Level Transmitters do not work satisfactorily in highly contaminated liquids and liquids with high viscosity.

For sensors with more than 3 metres, it is recommended to provide anchoring at the bottom. Also, a splash guard is recommended where high turbulence of liquid exists. Consult us for further details.

## TYPICAL WIRING

