



**VSAN**

# FLOAT LEVEL TRANSMITTER



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**VSAN SENSORS PVT. LTD.**



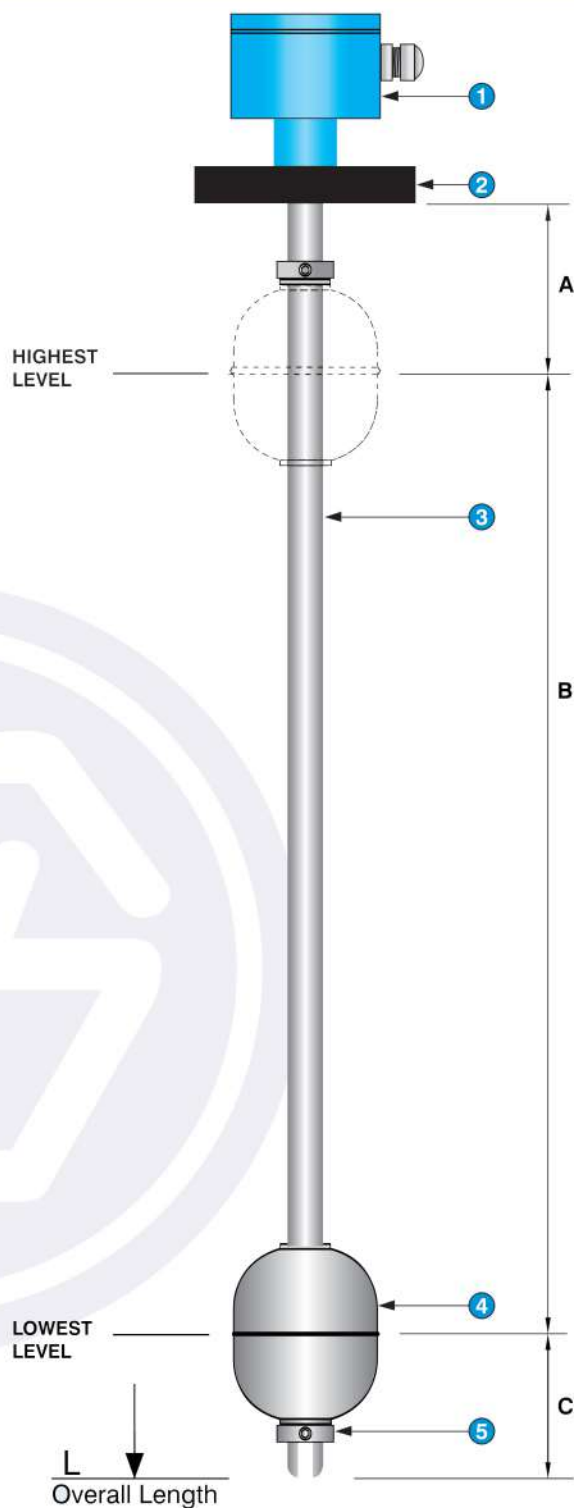
An ISO 9001:2015 Company



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## TECHNICAL DATA

Overall Length	: 300mm to 5000mm
Measuring Error	: $\pm 0.25$ % of Span
Output Temperature Co-efficient	: $\pm 0.007\%$ / $^{\circ}\text{C}$
Resolution	: 5mm / 10mm
Ambient Temperature	: $-40^{\circ}\text{C}$ to $60^{\circ}\text{C}$
Liquid Temp. Range	: $-40^{\circ}\text{C}$ to $120^{\circ}\text{C}$
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 : 3) RS 485 : 4) Resistance as per customer request
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**



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## Float Liquid Level Transmitters

- # Length up to 5 metres
- # Alloys or Engineering Plastic Wetted parts
- # Analog Output
- # Field Calibration

### CONSTRUCTION

Float Level Transmitter consists of non magnetic sealed stem containing series of reed switches and resistor, Float carrying magnet, Mounting adaptor (or flange) and enclosure containing electronics.

### OPERATING PRINCIPLE

Stem carrying 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 enclosure. As the float travels through the indicating distance, the magnet located within it tap off the reed switches there by varying the resistance fed to the electronics(as shown in figure below), which in turn converts the change in resistance to industry standard analog output.

### TYPICAL APPLICATIONS

Consider our Float Level Transmitters for all your continuous liquidlevel monitoring needs like Water, Diesel, Lube oils, Fuels, Chemicals and Petrochemical liquids.

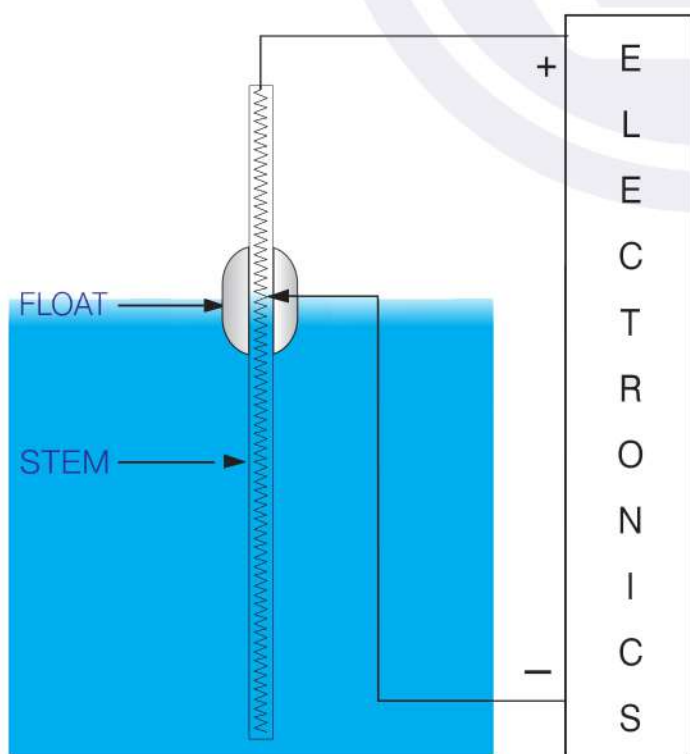
Here are just few areas where transmitters can be used.

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

### LIMITATIONS

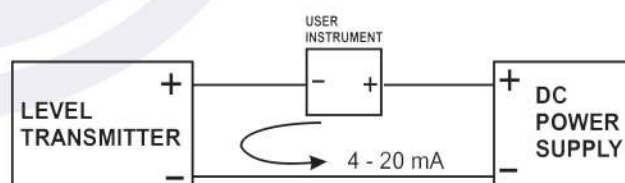
Float Level Transmitters does not work satisfactorily in highly contaminated liquids and liquids with high viscosity.

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

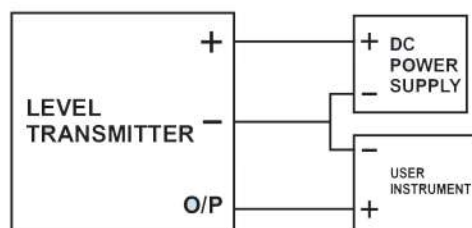


### TYPICAL WIRING

#### A : 2 wire 4 - 20mA



#### B : 3 wire 0 - 10V DC

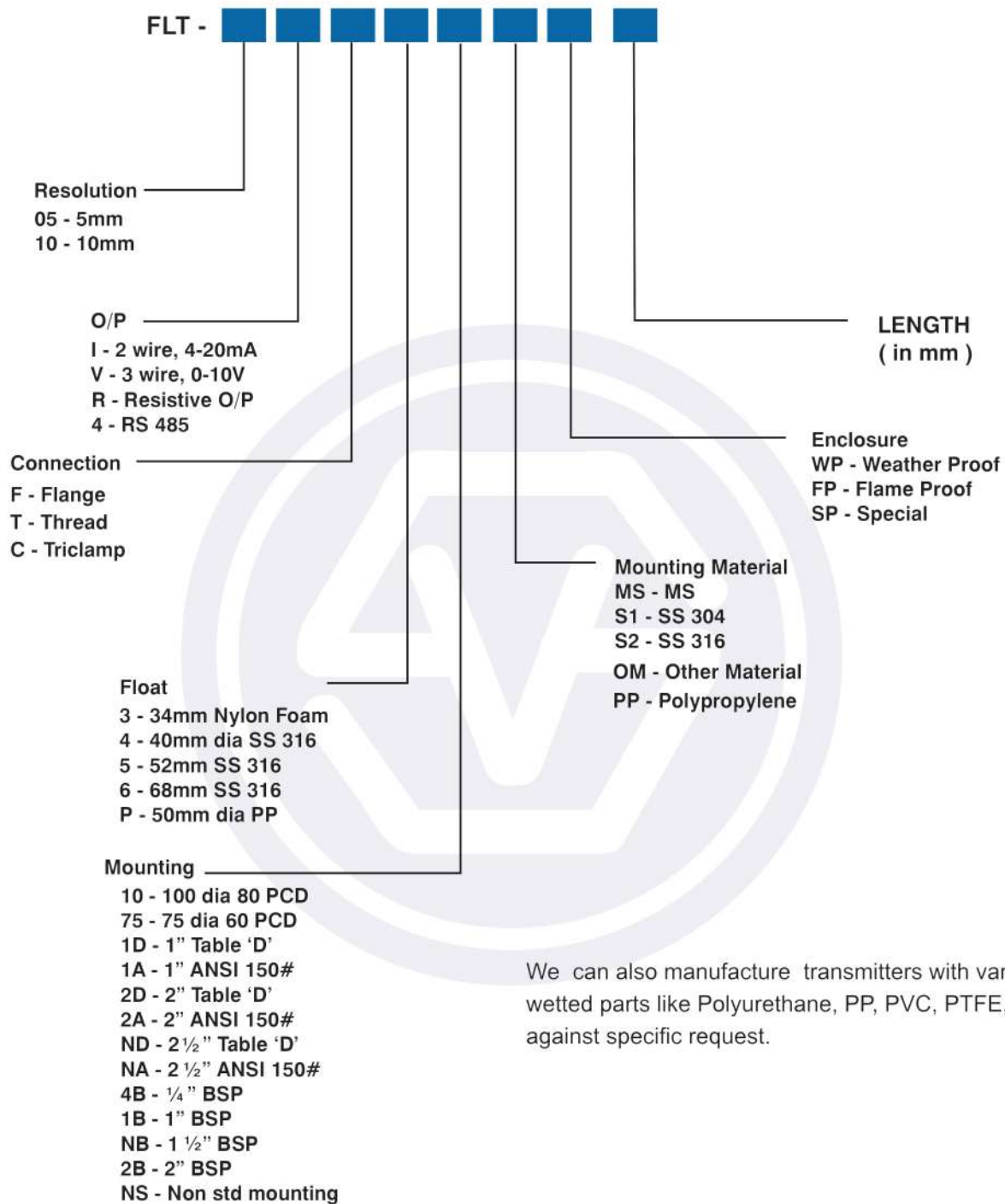






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## ORDERING INFORMATION



We can also manufacture transmitters with various wetted parts like Polyurethane, PP, PVC, PTFE, etc against specific request.

Since continuous development is our policy, the above specifications and details may change without prior notice.

## VSAN SENSORS PVT. LTD.

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**CALL US FOR MORE INFO**

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