

Float Level Transmitter




An ISO 9001:2015 Company

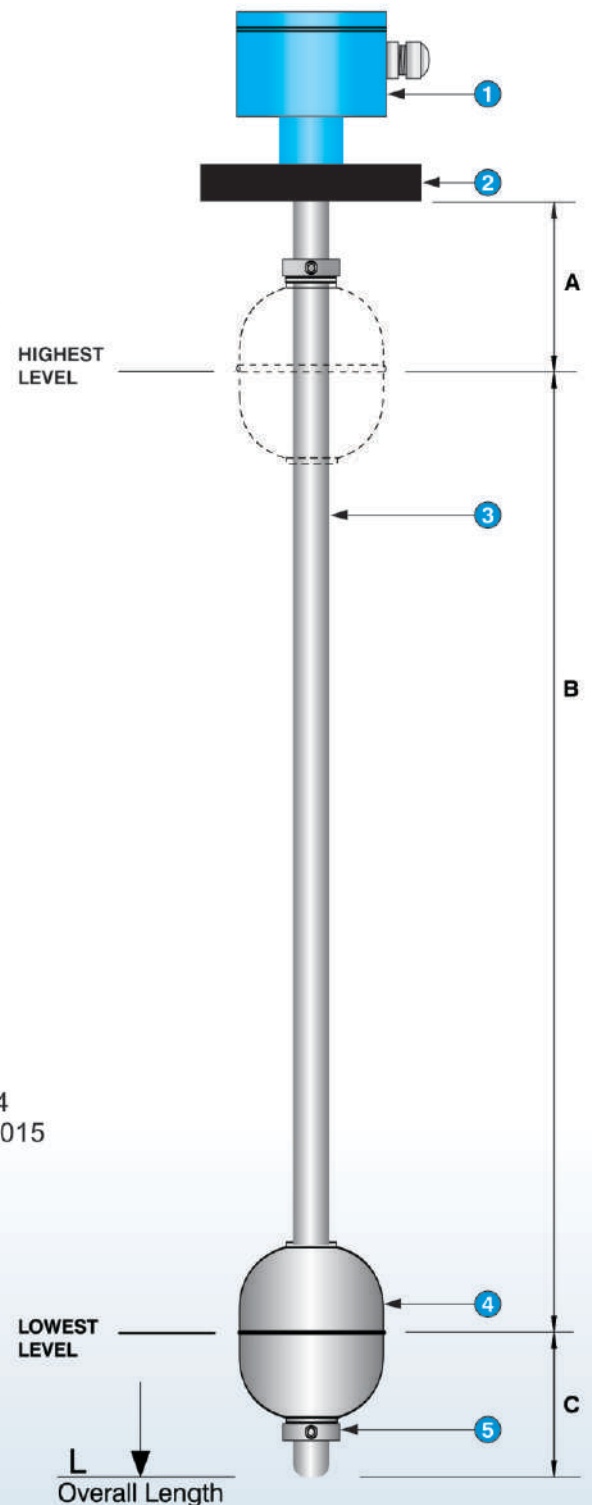


ATEX

TECHNICAL DATA

Overall Length	: 300mm to 5000mm
Measuring Error	: ± 0.5 % of Span
Resolution	: 5mm / 10mm
Ambient Temperature	: - 40°C to 60°C
Liquid Temp. Range	: -40°C to 125°C
Liquid Min. Density	: 0.8 gm/cc (for Less Consult Factory)
Max. Pressure	: 25 Kg/cm ²
Enclosure	: Cast Alluminium
Ingress Protection	: IP 66
Terminals	: Min. 1.5mm ² Flexible
Cable Entry	: 3/4" NPT for (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	: 16 - 30 V DC
Loop Resistance	: Max. 1200 OHMs
Certification Category	:  II 1G Ex ia IIB T4 Ga II 2G Ex db IIB T4 Gb
Compliance	: EN 60079-0 : 2018, EN60079-1:2014 EN 60079-11 : 2012, EN 60079-26:2015

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



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

1 - Enclosure
2 - Mounting Flange
3 - Stem
4 - Float
5 - Float Retainer

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 liquid level monitoring needs like Water, Diesel, Lube oils, Fuels, Chemicals and Petrochemical liquids.

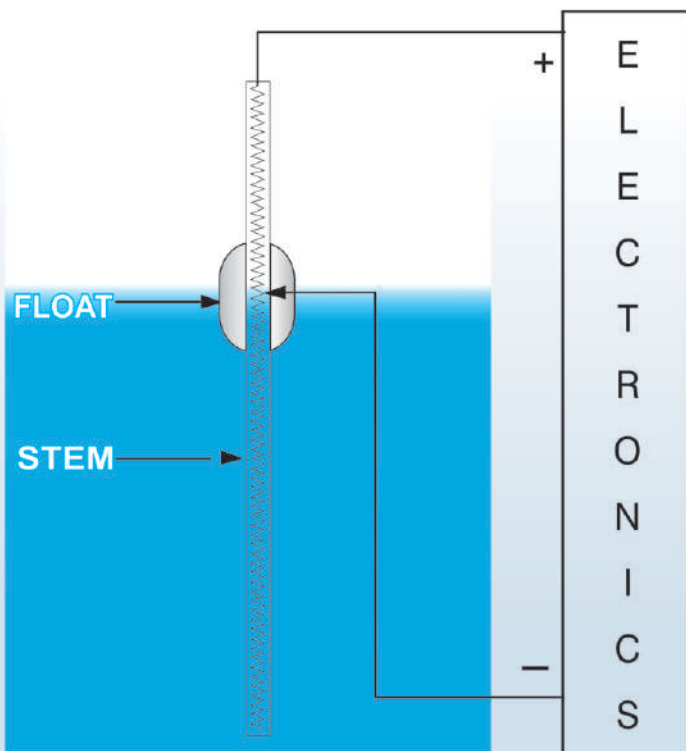
Here are just few areas where transmitters can be used.

- Pharmaceuticals
- Refineries
- Petrochemicals
- Chemicals
- Oil & Gas

LIMITATIONS

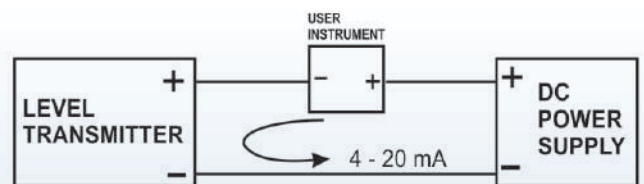
Float Level Transmitters does not work satisfactorily in highly contaminated liquids and liquids with high viscosity.

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.

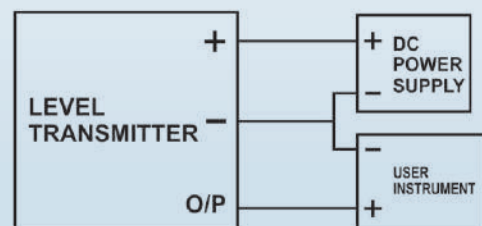


TYPICAL WIRING

A : 2 wire 4 - 20mA

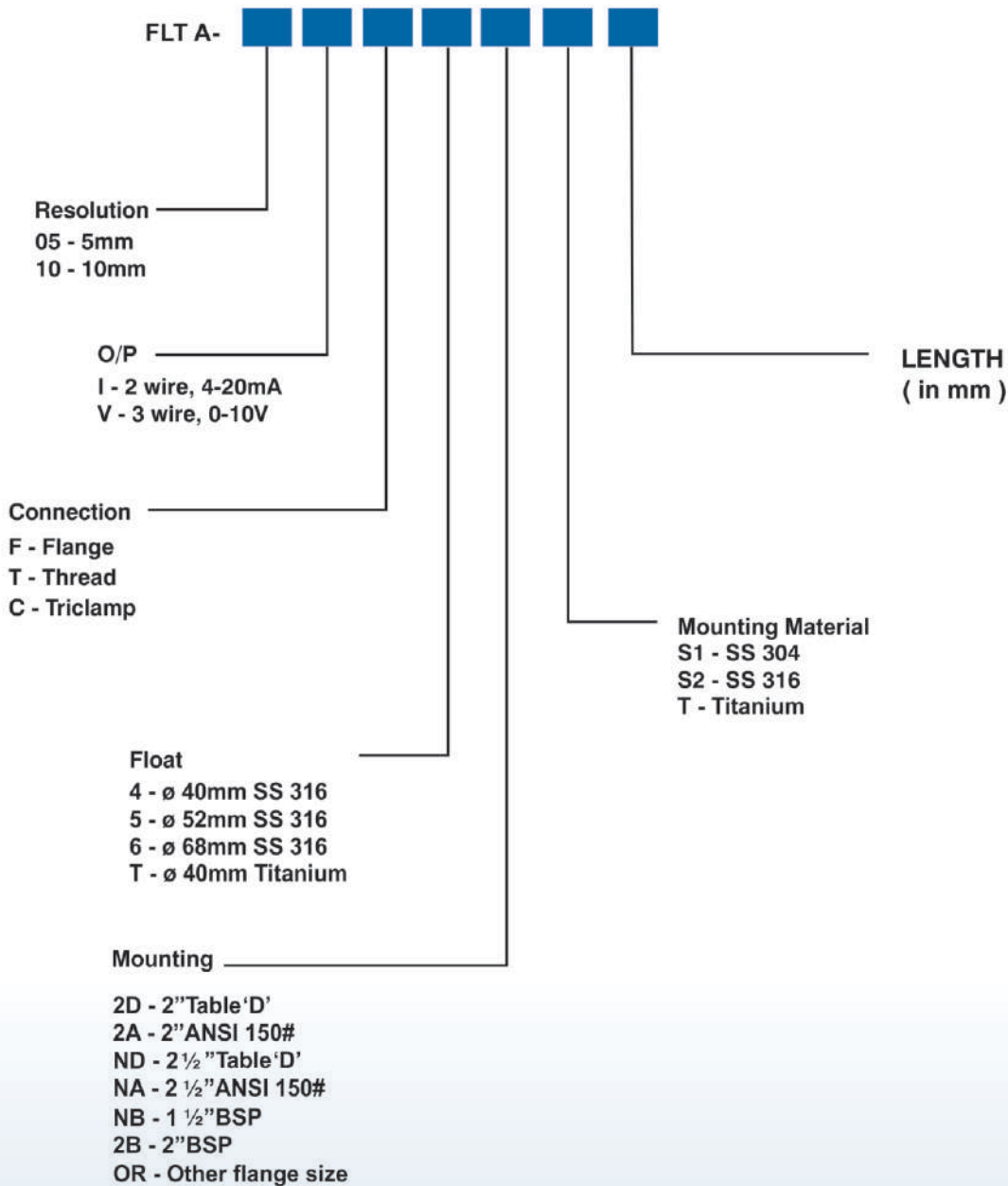


B : 3 wire 0 - 10V DC





ORDERING INFORMATION



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



II 1G Ex ia IIB T4 Ga/ II 2G Ex db IIB T4 Gb
Certificate No. : 2195 22 ATEX003 X

Filpro Sensors Pvt. Ltd.

No 130, 10th Cross, Petechennappa Industrial Estate, Kamakshipalya,
Magadi Main Road, Bangalore - 560 079. Phone : 080 23286463
E-mail : sales@filprosensors.com
Website : www.filprosensors.com



An ISO 9001:2015 Company