

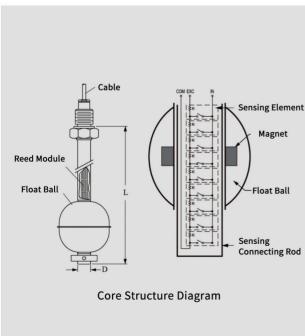
The floating ball continuous liquid level gauge uses the change of the magnet in the floating ball with the liquid level to change the partial voltage circuit composed of the resistance in the connecting rod and the dry reed. The smaller the gap of the dry reed, the higher the accuracy.











Overview

The float level meter is a continuous level meter with advantages such as sensitive action, high reliability, long service life, and strong resistance to load impact. It is widely used in industries such as water treatment, food machinery, shipbuilding, paper-making, power generation equipment, and petrochemicals. It is also used for high and low level liquid level detection in industrial equipment under high temperature environments.

Working Principle

The float level meter utilizes the magnetic field inside the float to change the resistance inside the connecting rod and the voltage divider circuit composed of the reed switch as the liquid level changes. The smaller the gap of the reed switch, the higher the accuracy. The voltage signal can be converted into 0/4~20mA or other different standard signals through a converter. The indicator can be used in conjunction with other displays for remote indication. It is a simple and highly reliable liquid level indicator.

Features

- Reed switch design with protective casing to avoid damage during transportation, installation, or use
- Continuous monitoring of liquid level with high repeatability
- Not affected by foam or conductivity, and not influenced by liquid density or pressure
- Available in various materials to meet different field needs; corrosion-resistant types can be customized
- Can be easily controlled remotely and used in conjunction with control units or digital displays
- Measuring range can be customized according to user requirements
- The indicator mechanism is completely isolated from the measured medium, ensuring good sealing and safe use
- Simple structure, easy installation, and low maintenance cost

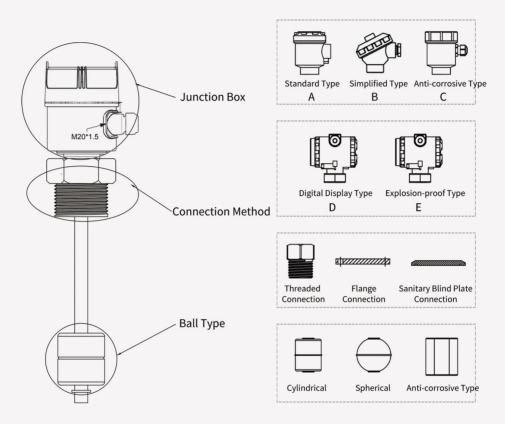


Float Level Meter										
Model	MF-100	MF-200	MF-300							
Image										
Application	Liquid	Liquid	Liquid							
Resolution	6MM/12MM	6MM/12MM	6MM/12MM							
Liquid Contact Material	304/316L	304/316L	PP/PTFE							
Measuring Range	300MM~6000MM	300MM~6000MM	300MM~6000MM							
Measuring Rod Diameter	⊘12.7MM~⊘22MM	⊘12.7MM~⊘22MM	Ø16MM~Ø25MM							
Process Connection	Thread: 1-1/2"~3"; Flange: 2"~6" (customizable)	Thread: 1-1/2"~3"; Flange: 2"~6" (customizable)	Flange: 2"~6" (customizable)							
Process Temperature	-20~200°C	-20~200°C	-20~80°C/-20~200°C							
Process Pressure	-1~25BAR (-100~2500KPA)	-1~25BAR (-100~2500KPA)	-1~50BAR/10BAR (-100~5000KPA/1000BAR)							
Signal Output	4-20mA Two-wire 24VDC / Three-wire resistance signal	4-20mATwo-wire24VDC LCD display	4-20mATwo-wire24VDC LCD display							
Junction Box Material	Aluminum Alloy Paint	Aluminum Alloy Paint	Aluminum Alloy Paint							
Certification	CE / ATEX / ISO9001	CE / ATEX / ISO9001	CE/ATEX/ISO9001							
Protection Level	IP65	IP65	IP65							

Float Level Meter



Structure Form



Float Ball Specifications

Model	Dimensional Size (A-B-C)	Specific Gravity (g/cm³)	Pressure Resistance (bar)	Material	Maximum Temperature Resistance (°C)	Applicable Rod Diameter (mm)	
S3	42x 50x 15	E>0.6	10	SUS316L	200	Ø12.7	. А.,
S4	45x 55x 15	E>0.5	10	SUS316L	200	Ø12.7	
S6	45x 55x 18	E>0.7	10	SUS316L	200	Ø14	
S7	75x 108x 20	E>0.5	10	SUS304	200	Ø16	154
S5	52x 52x 15	E>0.55	25	SUS316L	200	Ø12.7	A
S8	75x 75x 23	E>0.7	25	SUS304	200	Ø16	m ()
S9	150x 150x 30	E>0.5	15	SUS304	200	Ø22	
P1	40x 50x 22	E>0.85	Normal Pressure	PP	80	Ø18	
T1	60x 70x 24	E>0.9	Normal Pressure	PTFE	200	Ø18	в С
SS	Special Customization	Special Customization	Special Customization	Special Customization	Special Customization	Special Customization	