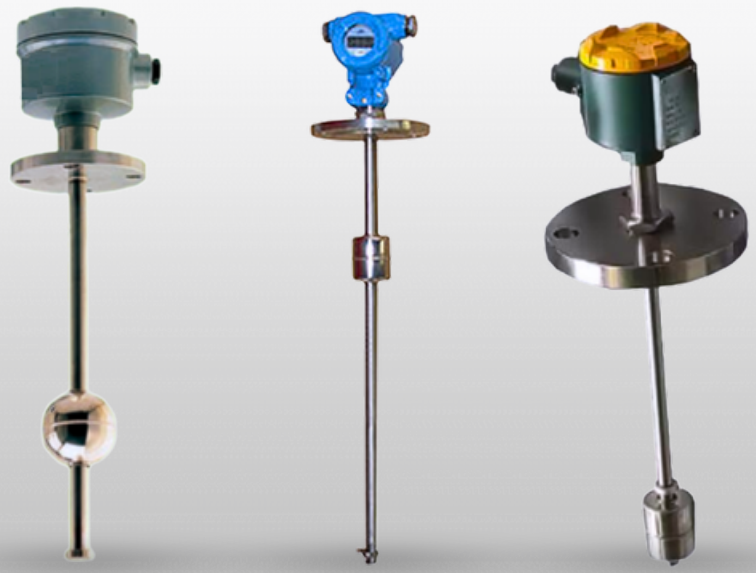
SON Industrial
Delivering superior value

Magnetic Float Level Transmitter

Model: SMLT



Product Description

The “Magnet Float Level Transmitter” is composed of a float and sensing rod (shown below). As the float is raised or lowered by the liquid level, the sensing rod will induce a resistance output, which is directly proportional to the liquid level. The Magnet Float Level Transmitter is a sturdy, reliable and durable device that is applicable across most industries.

Features

1. 4-20mA output, 2-wire loop powered, or 3-wire resistance output
2. Resolution of 0.25" (6.35mm) or 0.5" (12.7mm)
3. 19.7ft (6m) maximum length
4. Liquid level measurement with S.G. of >0.45
5. Explosionproof, corrosion-resistant and marine use units available

Working Principle

Magnetic Float Level Transmitter" is included a float and sensing rod. The float go up and down by the liquid level, the sensing rod will induce a resistance output. It is proportional to the liquid level.
Magnetic Float Level Transmitter is a reliable and high accuracy device It is applicated in most of industries.

Application

1. Diesel oil & gasonline storage tank
2. Liquid tank : water, chemical
3. Shipping vessels
4. Additives tanks in feed mill

Technical Information

Power	12~35VDC	Output	4~20mA, LCD, RS485 or Hart
Precision	RTD 0.1%; TC 0.2%	Current Limit	20.8mA
Excitation	0.2mA	Sensor	Magnetic reluctive
Load	250 Ω or 500 Ω	Stock Temperture	-40~120°C
Drift	≤ 25ppm/°C F.S.	Shell Material	PA66
Working Temperature	-30~80°C	Mounting Screw	M4.0*2

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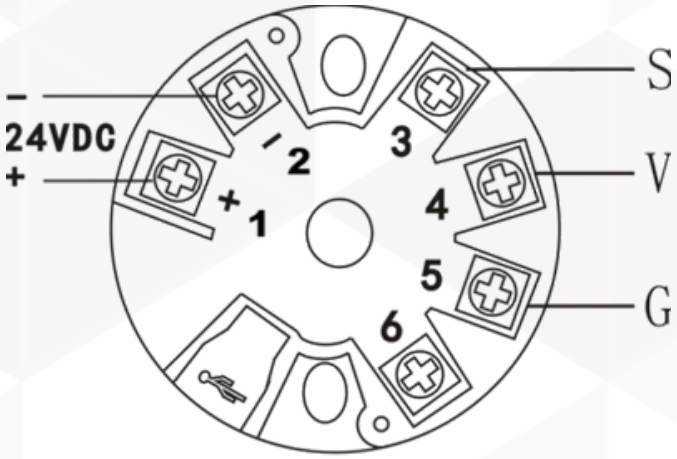
Wiring

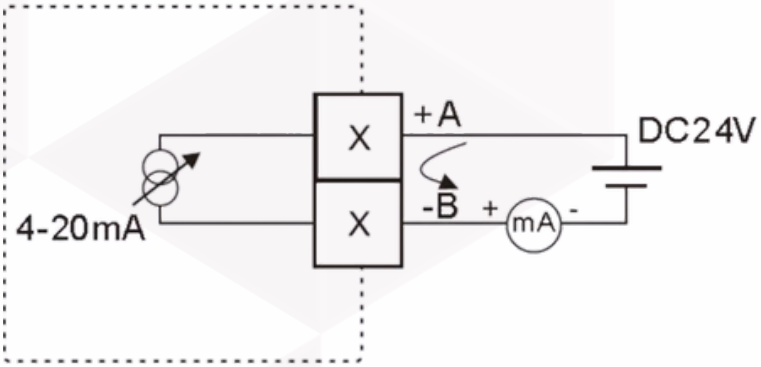


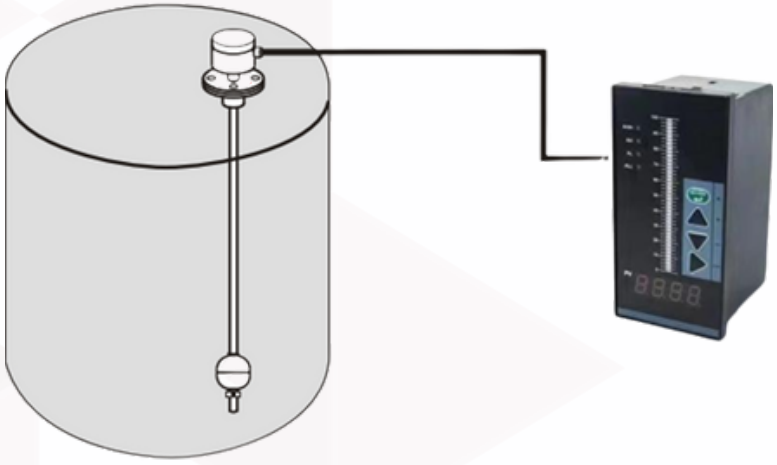
Terminal 1 connect to power 24VDC +
Terminal 2 connect to power 24VDC -

Module have Anti-reverse connection function

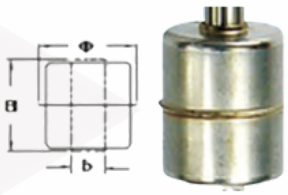
Terminal 3,4,5 is for sensor wire from the tube.

USB is for our factory person to calibrate the sensor...





Float Specifications

Size	φ×H×d(mm)	Material	Densisyg/cm2	Max. Temp.°C	Max. PressureKg/cm2	Dimension
S2	φ50×68×18	SS316L	0.7	150	15	
S3	φ52×60×18	SUS 304, 316L	0.7	150	15	
S4	φ52×62.5×20.5	SUS 304, 316L	0.7	150	15	
S5	φ40×H30×d 15.5	SUS 304, 316L	0.7	150	15	
S6	φ40×H50×d 15.5	SUS 304, 316L	0.55	150	15	
S7	φ45×H56×d 15.5	SUS 304, 316L	0.55	150	15	
S8	φ28×H28×d 9	SUS 304, 316L	0.7	150	15	
S9	φ52×H52×d 15.5	SUS 304, 316L	0.7	150	40	
S10	φ52×H62×d 15.5	SUS 304, 316L	0.7	150	40	
S11	φ75×H75×d 23	SUS 304, 316L	0.7	150	40	
S12	φ75×H75×d 23	SUS 304, 316L	0.55	150	15	
	φ125×H125×d 23	SS304	0.5	150	15	
	φ75×H70×d 23	SS304	0.6	150	15	
S13	φ125×H125×d 15.5	SUS 304, 316L	0.7	150	40	
P1	φ26×H18×d10.5	PP	0.65	75	5	
P2	φ40×H52×d20	PP	0.65	75	5	
P3	φ48×H52×d20	PP	0.65	75	5	
F1	φ55×H70×d23	PVDF	0.85	150	5	

Model Selection

SMLT	A	Top mounted float levle switch			
	Housing	0	Without housing		
		A	Aluminium housing		
		P	PP housing		
		S	Stainless steel housing		
	Connection	Flange: (ex: DN65 JIS5k)			
		Theard: (ex: 2'' PT)			
	Resolution	1	10mm		
		2	20mm		
	Fluid density	g/cm3			
	Operation pressure	MPa			
	Operation temperature	A	Ambient temperature (0~40°C)		
		M	-20~120°C		
		H	-20~180°C		
		HT	-20~400°C		
	Probe Material	S4	SS304	0Cr18Ni9	
		S6	SS316L	022Cr17Ni12Mo2	
		P	PP	PP (Polypropylene), PVC, PVDF	
		PT	PTFE	Stainless steel lined with PTFE	
	Explosion - proof			S	Safety environment
				E	Explostion - proof Exdll BT4
	Probe diameter	1G: φ9.5mm		2D: φ17.2mm	
		2A: φ12.7mm		3A: φ20mm	
		2B: φ14.0mm		3B: φ27.2mm	
		2C: φ16.0mm			
	Fload	as above table			
	Length	Code		Probe Length	
		0150~A300		150~30000mm	