



## MAGNETIC FLOAT OPERATED LEVEL TRANSMITTER

SIGMA's Magnetic Float Operated Level Transmitter is a simple and reliable technique for continuous level indication and control of any liquid, chemically compatible with the (sensor) material, unaffected by electrical conductivity, temperature, pressure or viscosity. The float is designed for variety of liquids.

### Operating principle

The Transmitter consists of a float & guide stem assembly in non-magnetic material to achieve undisturbed flux. A chain of closely spaced glass encapsulated reed switches & resistors are placed inside the guide tube. During rise and fall of liquid level, the magnetic float moves & actuates a reed switch in the chain. The sensed voltage is fed to the transmitter located in the enclosure for conversion to a signal of 4-20 mA.

### Specifications

Span (L)	: up to 3 m / specified.
Resolution	: 10 mm
Mounting	: Top
Enclosure	: Cast Aluminum Weather proof to IP 67 or Explosion proof IIA & IIB.
Conduit Connection	: Brass, 3/4" ET or 1/2" NPT
Wetted Parts	: SS304, SS316, PP / specified.
Float(Material & Size)	: Suitable for process parameter.
Process Connection	: 2" and above Flanged or threaded to ANSI / BS / DIN std.
Output	: DC 4-20 mA (isolated) or 1 to 5 VDC (optional).
Wiring System	: 2 Wire
Temperature	: 100°C / Specified
Test Pressure	: 10 kg/cm <sup>2</sup> / Specified.
Optional	: Process Indicator with alarm.
Application	: Storage Tanks (Fuel, Oil, Chemical, Water), Pressurized Vessels, Waste Water Treatment Plant.

### Sigma Advant-edge

- ✓ Continuous 'Float Type' Analog Sensor, in materials, resistive to most liquids
- ✓ Pre calibrated at factory-No Field Calibration required  
4-20 mA, 2 wire processed output signal
- ✓ High Resolution & Repeatability
- ✓ Liquid level or liquid / liquid interface detection
- ✓ Length up to 3.5 m, RS-232, RS-485 compatible

**NOTE:** SIGMA reserves the right to modify specification / design from time to time, which is deemed suitable for the product without prior intimation.



Model No.Coding - Magnetic Float Operated Level Transmitter

SIML-TX	Process Connection	Wetted Parts	Range (mm)
Sigma Magnetic Float Operated Level Transmitter	F - Flanged	4-SS304	Specify in meter
	S - Screwed	6-SS316	
		P-PP S-other specify	

While ordering, specify:

1. Process Connection Material & size (Flange or Thread) and Flange rating.
2. Conduit Connection

