

Magnetostrictive Type Level Transmitter (2-Wire)

Model: SMS





SMS

Magnetostrictive Type Level Transmitter(SMS-2W)

Features

High Accuracy : 0.1%F.S (±1mm)2-Wire Type 4 to 20mA, LCD

• Works in a wide range of liquids

Approval

• Ex d IIC T6, IP65

General Description

The SMS series, magnetostrictive level measurement, is especially designed for precision measurement, With is high accuracy of $\pm 0.1\%$ F.S, the SMS is ideal for continuous level monitoring of storage and shipment for oil, petrochemical liquid, pure chemical liquid(Acid, Alkali) beer and other beverages, pharmaceuticals, etc.

The position of float is converted into electric signals proportional to the liquids level.

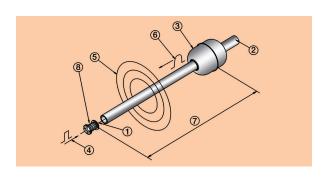
Measurement Principle

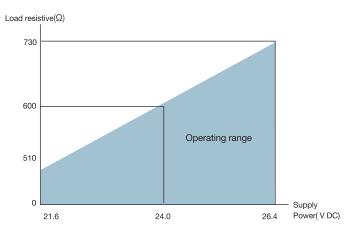
Waveguide generate circle magnetic fields outside by interrogation pulse. Magnetic flux density in the waveguide changed by magnet (Float) with perpendicular to the axial magnetic field.

This phenomenon return to minute voltage signal through waveguide. Distance between release part and magnet is in proportion to the time interval between release signal and returned signal. It converts the signal to output.

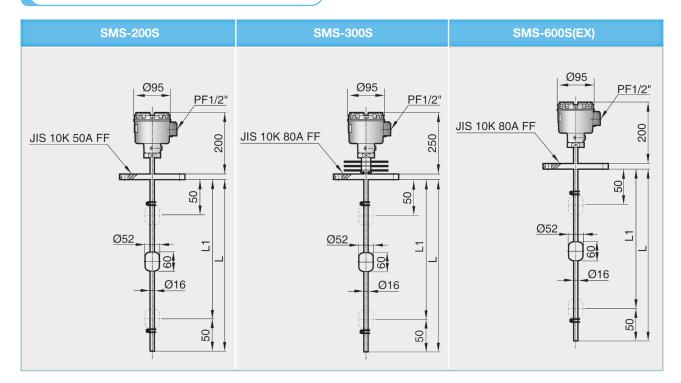
Features

The SMS series, consists of a magnetostrictive wire ① in the stem ② and a permanent magnet inside the float ③. The float is the only moving part which travels vertically on the stem. Once a pulse current ④ in induced from the end of the magnetostrictive wire, a tubular magnetic field emanates ⑤. As the float travels, torsional vibration ⑥ is launched by the interaction between the float magnetic field and the magnetostrictive wire. The float position is determined by measuring the lapse of time ⑦ from the inducing of a pulse current to the return of the torsional vibration to the pick-up ⑧.





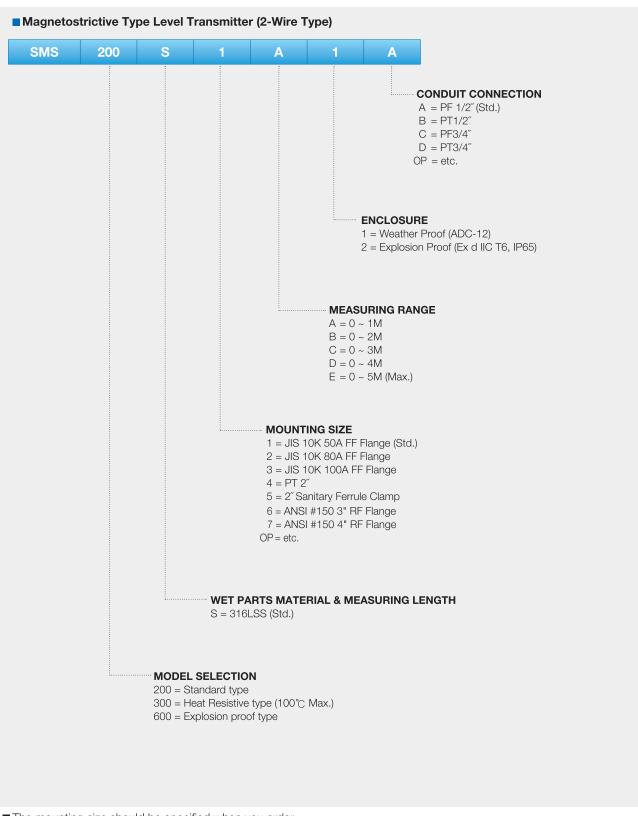
Dimensions



Specifications

Supply Power		15 ~ 30V DC 2Wire (LOOP POWER)
Output		4 ~ 20mA DC / 0.0~100.0% (DISPLAY)
Measuring Range		100 ~ 3000mm / Option Max. 6,000mm
Non-Linearity		±0.05% Below
Repeatability		0.05% F.S Below
Resolution		±0.1% Below (0.5mm)
Accuracy		±0.1% F.S Below (1mm)
Output Accuracy		±0.05% Below (0.005mA)
Sampling Rate		100mS
Operating Temperature		-20°C ~ +60°C / Option Max. 100°C
Ambient Temperature		-20℃ ~ +60℃
Maximum Pressure		10Kg/cm ²
Minimun Specific Gravity		0.7
Viscosity		Max. 1000 cP
Humidity		95% RH
Conduit Connection		PF 1/2" (Std.), PF 3/4", PT 1/2", PT 3/4"
Mounting Size		Flange 2" above, Nipple 2" above
Material	Housing	ADC12
	Stem	316LSS
Ingress Protection		Weather Proof
Explosion Proof		Ex d IIC T6, IP65 (Option)
Compatible with Unit		SLIC-4P, SLIC-4PD

Ordering Information



- The mounting size should be specified when you order
- \blacksquare The measuring range should be specified when you order



14, Dunchon-daero 457beon-gil, Junwon-gu Seongnam-si, Gyeonggi-do, Korea[Zip.13218] ② +82-31-627-9000 圖+82-31-624-5345 http://www.seojin.biz