



NASHA technomation

Mfg. & Dealing in Process Control Instruments

TANK LEVEL INSTRUMENTS – FLOAT TECHNOLOGY



NASHA LEVEL Instruments are very reliable and cost effective instruments. In these point level sensors, a magnetic float moves with the liquid surface, actuating a hermetically sealed "reed switch" in the stem. The simple, low-maintenance design installs readily; minimizes shock, vibration, and pressure; and works with a variety of media. The reed switch can be single pole, single throw (SPST) or single pole. As the float raised or lowered by liquid level, the sensing rod will have a resistance output, which is directly proportional to the liquid level.

Also, the float level indicator to produce a 4~20 mA signal. In addition, we can use bar graphic display scaling panel meter for level control and display. Anyway, "Magnet Float Level Indicator" is a great benefit to all kinds of industries with its easy working principle and reliability. The float's magnetic system operates a resistance measuring chain within a guide tube, which corresponds to a 3-wire potentiometer circuit. The measurement voltage generated by this is proportional to the fill level. The measurement voltage is finely-stepped as a result of the contact separation of the measuring chain.

Float technology

NASHA take advantage of the proven highly reliable float technology providing extremely accurate liquid level sensing under almost all operating conditions.

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Advantages

- 1: Floats follow the true liquid surface, rather than extra polate results from indirect indications such as pressure sensing or echo location. They operate flawlessly in tanks with curved walls or other shapes without clear vertical access, where other liquid level technologies may be unable to function properly.
- 2: Floats feature the unique capability to monitor liquid interface levels in virtually any tank size or shape. Any two liquids with differing densities ($> 0.1 \text{ g/m}^3$) contained together (oil and water etc.), float type sensors keep operators aware of the interface level position. The principles of measurement with sensors effectively eliminate the problems that foam and waves cause with other types of level sensors.
- 3: Floats and the magnetically actuated reed switch counterparts are accurate and repeatable. Measurement accuracy of other technologies can be influenced by changes in pressure or temperature and often require complex expensive electronics and continual adjustment on recalibration.

Our experienced engineering staff will customize Tank Level Instruments to meet your specific requirements.

Feature :

Process and system-specific solutions possible Operating limits :

Operating temperature: $T = -80 \dots +200 \text{ }^\circ\text{C}$ and Working pressure: $P = \text{Vacuum to } 100 \text{ bar}$ Wide variety of different electrical connections, process connections and materials

Optionally with programmable and configurable head mounted transmitter for 4 ... 20 mA signals , Explosion protected versions.

Uses :

Level measurement for almost all liquid media Chemical industry, petrochemical industry, natural gas, offshore, shipbuilding, machine building, power generating equipment, power stations Process water and drinking water treatment, food and beverage industry, pharmaceutical industry



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Data Sheet For Level Switch And Transmitter

Sr.No.	Required Field	Fill as per requirement				
1	Fluid					
2	Density					
3	Working Temperature					
4	Working Pressure					
5	Mounting from (Top / Side)					
6	MOC of Level switch					
7	Process connection					
8	Sheath Diameter					
9	Sheath Length					
10	Switching Point from top Length in mm	Switch 1	Switch 2	Switch 3	Switch 4	
11	If Transmitter					
	a C to C distance					
	b Output from the transmitter					
	c Transmitter Detail	2- wire, Head mounted, 24VDC				
12	Float Dia and Height	53 mmØ and 57 mm long				
13	Enclosure	Aluminum die cast, powder coated, W.P., FLP, Gland Entry Max. 2 no. 3/4" ET				
<p>Remarks :</p>						

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