

## Floating Level Transmitter

### PEK671



#### Application Area

PEK671 Magnetic Level Transmitter is a very important part of the automatic control system. The magnetic level gauge is a new product in the past ten years. The magnetic level sensor is characterized by high precision and high reliability, so magnetic level transmitters is widely used for the petroleum, chemical raw material storage, industrial process, biochemistry, medicine, food and beverage, regional management and underground storage of gas stations, dam water level, reservoir water level monitoring and sewage treatment, etc.

#### WORKING PRINCIPLE

The "Magnet Float Level Transmitter" is composed of a float and sensing rod (shown). 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.

## Features of Magnetic Level Transmitter

The Magnet Float Level Transmitter is a sturdy, reliable and durable device that is applicable across most industries.

- High accuracy
- Never requires re-calibration: set it & forget it.
- Superior Sensor
- Local indication with HMI display.
- Dual compartment housing with separate fields.
- Loop powered
- Total and/or interface level measurement.

## Technical Advantages of Magnetic Level Transmitter

- PEK671 Magnetic level transmitter is suitable for the level measurement of clean liquid level with high precision requirements, the accuracy reaches 1mm, and the latest product accuracy can reach 0.1mm.
- PEK671 can also be applied to the boundary measurement between two different liquids.
- Explosion-proof design, suitable for dangerous occasions, the intelligent electronic circuit design can calculate the volume; the only movable part is a float, and the maintenance is extremely low.
- PEK681 Magnet level gauges with suitable PEK671 magnetic level transmitter price are used for industrial measurement and control of liquid levels in various liquid tanks such as petroleum, chemical raw material storage, industrial processes, biochemistry, medicine, food and beverage, tank farm management and gas station underground storage, dam water level, reservoir Water level monitoring and sewage treatment, etc.

## Application of Magnetic Level Transmitter

With the rapid development of science and technology, high and new technology has been widely used in various industries. High-tech magnetostrictive level sensors are used for liquid level measurement of various storage tanks. This type of liquid level instrument has the characteristics of high precision, strong environmental adaptability, and easy installation.

Therefore, it is widely used in the field of liquid level measurement in petroleum, chemical industry, etc., and gradually replaces other traditional sensors and becomes the best in liquid level measurement.

The Pars Electronic Kish manufactured PEK671 magnetic level transmitters have been widely applied through out the industries, the Iranian level transmitter manufacturer has integrated accurate, safe and reliable properties into the design of our magnetic level indicators.

### **Other advantages of magnetic level transmitter**

- **Strong reliability:** Since the magnetostrictive liquid level gauge adopts the principle of the waveguide, there is no mechanical movable part, so there is no friction and no wear. The entire converter is enclosed in a stainless steel tube and is not in contact with the measurement medium. The sensor works reliably and has a long life.
- **High precision:** Because the magnetostrictive liquid level gauge works with waveguide pulses, the measured displacement is determined by measuring the time of the start pulse and the end pulse during the work, so the measurement accuracy is high, and the resolution is better than 0.01% FS, which Accuracy that is difficult to achieve with other sensors.
- **Good safety:** The magnetostrictive liquid level gauge has high explosion-proof performance, intrinsically safe explosion-proof, and is safe to use, especially suitable for the measurement of chemical raw materials and flammable liquids. It is not necessary to open the tank lid during
- **The magnetic liquid level gauge is easy to install and maintain:** the magnetic liquid level gauge is generally installed through the existing nozzle on the top of the tank and is particularly suitable for the installation of underground storage tanks and operational storage tanks. The process does not affect normal production.
- **Facilitate system automation work:** The secondary instrument of the magnetostrictive liquid level gauge adopts standard output signals, which is convenient for the computer to process the signal, and it is easy to realize networked work and improve the automation degree of the entire measurement system.

## Specifications

Type	PEK 671
Product Name	Magnetic Level gauge
Float Material	SS304 / SS316
Enclosure Material	Aluminum
Enclosure Color	Blue
Voltage	24 VDC
Output	current: 4~20mA
Response Time	0.2~5ms (depending on the measuring length)
Measuring Range	50 ~ 5000 mm
Explosion-proof	Exd IIC T4
Non-linear Error	<0.05%F.S.; <150µm for measuring range<300mm of sensor
Cable gland	M20
Protection	IP65
Ambient air temperature	Operating: -40°C to 100°C, Storage: -40°C to 120°C
Enclosure Model	PEK 004
Weight	Approx.1000g