

UHZ-50/S系列浮球液位计

UHZ-50/S Series Magnetic Float Ball Level Gauge

产品概述

Product Overview

UHZ-50/S系列浮球液位计用于化工、电力、造纸、造船、环保、食品等行业。承压容器内介质的液位测量，用于地下槽、池，高层水箱的液位测量，更为简单、可靠，最为理想。浮球液位计的材质为不锈钢耐腐蚀，适用于易燃易爆的场所。

The UHZ-50/S series magnetic float ball level gauge is widely used in industries such as chemical, power, paper making, shipbuilding, environmental protection, and food. It is designed for liquid level measurement of media in pressurized vessels and is particularly suitable for underground tanks, pools, and high-rise water tanks. It offers simplicity, reliability, and is considered an ideal solution. The float level gauge is constructed with corrosion-resistant stainless steel, making it suitable for use in hazardous environments where flammable or explosive materials are present.

产品原理

Product Principle

浮球液位计的原理是主导管内装有一组干簧管和精密电阻，当管外带有环形磁钢的浮球因浮力随液位上下变化，相应的主导管内位于液面处的干簧管在磁场作用下依次闭合（接通）使回路电阻值发生变化，经专用模块转换成4-20mA DC电流输出。

The principle of the magnetic float ball level gauge involves a main tube containing a set of reed switches and precision resistors. As the float ball with an annular magnet attached to its outer surface moves up and down with the liquid level due to buoyancy, the corresponding reed switch located at the liquid level position in the main tube will close (turn on) under the influence of the magnetic field. This causes a change in the circuit resistance. The dedicated module converts this resistance change into a 4-20mA DC current output.

产品特点

Product Features

- 1、结构简单，可靠性高；
 - 2、进口磁簧开关，使用寿命长；
 - 3、适用于敞口或带压容器；
 - 4、可用于液位或介面的测量与控制；
 - 5、多种触液材质，适用于强腐蚀性液体；
 - 6、开关控制器提供多种控制方案；
 - 7、具有防爆性能，可用于危险场合；
 - 8、多种安装形式可供选择。
- 1.Simple and reliable structure.
 - 2.Imported magnetic reed switches with a long lifespan.
 - 3.Suitable for both open and pressurized vessels.
 - 4.Capable of measuring and controlling liquid levels or interfaces.

- 5.Available in a variety of wetted material options, suitable for corrosive liquids.
- 6.Switch controllers offer multiple control schemes.
- 7.Designed with explosion-proof capabilities, making it suitable for hazardous environments.
- 8.Offers a range of installation options to accommodate different requirements.

产品信息

Product Information

 UHZ-50/S	测量范围: 0-6000mm, 特殊可定制 测量精度: $\pm 1.5\%$ ($L \geq 1000\text{mm}$), $\pm 2.5\%$ ($L \leq 1000\text{mm}$) 介质密度: $\geq 0.3\text{g/cm}^3$ 工作温度: $-40 \sim 120^\circ\text{C}$ 工作压力: $-0.1 \sim 4\text{MPa}$ 介质黏度: $\leq 0.4\text{Pa}\cdot\text{s}$ 界位比重差: $\geq 0.1\text{g/cm}^3$ 材质: 304、316L、PP、Ti、304+PTFE、316L+PTFE等 连接方式: 螺纹/法兰 防爆标志: ExdbIICT6 Gb ExialIICT6 Ga Extb IIICT80°C Db	Measurement Range: 0-6000mm (special customization available) Measurement Accuracy: $\pm 1.5\%$ (length $L \geq 1000\text{mm}$) $\pm 2.5\%$ (length $L \leq 1000\text{mm}$) Media Density: $\geq 0.3\text{g/cm}^3$ Operating Temperature: -40 to 120°C Operating Pressure: 1.0, 1.6MPa Media Viscosity: $\leq 0.4\text{Pa}\cdot\text{s}$ Interface Density Difference: $\geq 0.1\text{g/cm}^3$ Materials: 304, 316L, PP, Ti 304+PTFE, 316L+PTFE, and more Connection Type: Threaded; Flanged Explosion-proof Marking : ExdbIICT6 Gb ExialIICT6 Ga Extb IIICT80°C Db
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产品选型

Product Information

UHZ-50/S					
显示类型 Display Type 带显示 B With display Panel 不带显示 X Without display Panel					

接液材质 Wetted Material 3041 316L2 PVC3 PP4 304+PTFE5 316L+PTFE6 其他材质0 Other material	
电气接口 Electrical Interface M20*1.5M 1/2NPTN 特殊定制X Special customization	
输出信号 Output Signal 4-20mA1 4-20mA+HART2	
防爆形式 Explosion Protection Type 普通型P Ordinary Type 防爆型D Explosion-proof type	