

UHZ-50系列磁性液位计

UHZ-50 Series Magnetic Liquid Level Gauge

产品概述

Product Overview

UHZ-50系列磁性液位计是一种浮球式金属管现场指示型液位计。该系列产品可以做到高密封、防泄漏和在高温、高压、高粘度、强腐蚀性条件下安全可靠地测量液位，全过程测量无盲区，显示醒目，读数直观，且测量范围大，配上液位报警、控制开关，可实现液位或界位的上、下限报警和控制，配上液位变送器，可将液位、界位信号转换成二线制4~20mA DC标准信号，实现远距离检测、指示、记录与控制。该系列产品广泛用于电力、石油、化工、冶金、环保、船舶、建筑、食品等各行业生产过程中的液位测量与控制。

The UHZ-50 series magnetic level gauge is a field-indicating liquid level gauge that utilizes a float inside a metal tube for accurate and real-time measurement and indication of liquid levels. It is specifically designed to provide reliable and precise measurements in various industrial applications. With its high sealing capabilities and leak-proof performance, the gauge ensures safe and accurate measurements even under challenging conditions such as high temperature, high pressure, high viscosity, and strong corrosive environments. The gauge offers a wide measurement range, eliminating blind spots and providing a clear and intuitive display for easy reading. It can be further enhanced with liquid level alarms, control switches, and level gauges to enable advanced monitoring, control, and signal conversion functionalities. Widely used in industries including power, petroleum, chemical, metallurgy, environmental protection, shipbuilding, construction, and food production, the UHZ-50 series magnetic level gauge is an essential tool for precise liquid level measurement and control applications.

产品原理

Product Principle

磁性液位计是根据浮力原理和磁性耦合作用原理工作的。当被测容器中的液位升降时，液位计主体管中浮子也随之升降。浮子内的永久磁钢通过磁耦合传递到现场指示器，驱动红、白翻柱翻转180°；当液位上升时，翻柱由白色转为红色，当液位下降时，翻柱由红色转为白色，指示器的红、白界位处为容器内介质液位的实际高度，从而实现液位的指示。

The Magnetic Liquid Level Gauge operates based on the principles of buoyancy and magnetic coupling. When the liquid level in the measured container rises or falls, the float inside the main tube of the gauge moves accordingly. The permanent magnet inside the float transfers its magnetic field through magnetic coupling to the field indicator, driving a red-white flip column to rotate by 180°. As the liquid level rises, the column changes from white to red, and as the liquid level falls, it changes from red to white. The red and white interface on the indicator represents the actual height of the liquid level in the container, providing an accurate indication of the liquid level.

产品特点

Product Features

- 1、适用于容器内液体介质的液位测量，除现场显示外，还可配远传变送器、液位控制器等功能；
- 2、显示直观醒目，可根据用户要求改变显示方向；
- 3、测量范围大，不受容器高度限制；
- 4、显示器组件与被测介质完全隔离，故密封性好，可靠安全；

- 5、结构简单，安装方便，维修简易；
- 6、耐腐蚀，防爆。

- 1.Suitable for measuring the liquid level of media inside containers, and can be equipped with additional functions such as remote transmission gauges and level controllers.
- 2.Offers a clear and prominent display, with the flexibility to adjust the display orientation based on user preferences.
- 3.Wide measurement range, without being restricted by container height.
- 4.Ensures reliable sealing and safety as the display components are fully isolated from the measured medium.
- 5.Simple structure, easy installation, and convenient maintenance.
6. Resistant to corrosion and designed to be explosion-proof.

产品信息

Product Information

 UHZ-50/C	测量范围：0-6000mm，特殊可定制 测量精度：±10mm 介质密度：≥0.35g/cm³ 工作温度：-196~520℃ 工作压力：-0.1~32MPa 介质黏度：≤0.4Pa.S 界位比重差：≥0.1g/cm³ 材质：304、316L、PP、PVC、Ti、304+PTFE、316+PTFE等 连接方式：法兰 防爆标志：ExdbIICT6 Gb ExialIICT6 Ga Extb IIICT80℃ Db	Measurement Range: 0-6000mm (special customization available) Measurement Accuracy: ±10mm Media Density: ≥0.35g/cm³ Operating Temperature: -196 to 520℃ Operating Pressure: -0.4~32MPa Media Viscosity: ≤0.4Pa.S Interface Density Difference: ≥0.1g/cm³ Materials: 304, 316L, PP, PVC, Ti, 304+PTFE, 316+PTFE, and more Connection Type: Flange Explosion-proof Marking: ExdbIICT6 Gb ExialIICT6 Ga Extb IIICT80℃ Db
 UHZ-50/D	测量范围：0-6000mm，特殊可定制 测量精度：±10mm 介质密度：≥0.35g/cm³ 工作温度：-196~520℃ 工作压力：-0.1~32MPa 介质黏度：≤0.4Pa.S 界位比重差：≥0.1g/cm³ 材质：304、316L、PP、PVC、Ti、304+PTFE、316L+PTFE等 连接方式：法兰 防爆标志：ExdbIICT6 Gb ExialIICT6 Ga Extb IIICT80℃ Db	Measurement Range: 0-6000mm (special customization available) Measurement Accuracy: ±10mm Media Density: ≥0.35g/cm³ Operating Temperature: -196 to 520℃ Operating Pressure: -0.1~32MPa Media Viscosity: ≤0.4Pa.S Interface Density Difference: ≥0.1g/cm³ Materials: 304, 316L, PP, PVC, Ti, 304+PTFE, 316L+PTFE, and more Connection Type: Flange Explosion-proof Marking: ExdbIICT6 Gb ExialIICT6 Ga Extb IIICT80℃ Db

选型指南

Selection Handbook

UHZ-50							
安装方式 Installation Method 侧侧式 C Side Mounting 顶装式 D Top Mounting 其他安装方式 Z Other Mounting Method							
主体管材质 Main Tube Material 304 1 316L 2 PVC 3 PP 4 304+PTFE 5 316L+PTFE 6 其他材质 0 Other materials							
显示器 Display Panel 铝合金面板 L Aluminum alloy panel 不锈钢面板 Q Stainless Steel Panel 磁敏电子双色面板24VDC C1 Magnetic Sensitive Electronic Dual-Color Panel 24VDC 磁敏电子双色面板220VAC C2 Magnetic Sensitive Electronic Dual-Color Panel 220VAC							
排污法兰 Discharge Flange 盲板法兰 1 Blind Flange 带排污螺钉 2 Flange with Drain Screw 带排污阀 3 Flange with Drain Valve							

配套仪表 Supporting Instruments		
远传变送器 Remote Transmission gauge	L	
磁致伸缩液位变送器 Magnetostrictive Level gauge	M	
开关量输出 Switch Output	Q	
无配套仪表 Without supporting instruments	W	
特殊结构 Special Structure		
防霜式 Frost-proof Type		01
蒸汽夹套式 Steam Jacket Type		02
电伴热式 Electric Heat Tracing Type		03
防爆形式 Explosion Protection Type		
普通型 Ordinary Type		P
防爆型 Explosion-proof Type		D