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使用说明书 Operation Instruction



LIQUID LEVEL INDICATOR

液位计



液位测量

Level measurement

- 石油
- 化工
- 冶金
- 电力
- 食品
- 药业
- 建材
-

- Petroleum •
- Chemical •
- Metallurgy •
- Electricity •
- Food •
- Pharmaceutical •
- Building materials •
- •



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液位计使用说明书

Operation Instruction for Liquid Level Indicator



关于本公司

About The Company

安徽天康（集团）股份有限公司是一家国内知名的仪器仪表设计与制造公司，产品用于流程工业、过程控制，实现温度测量，压力测量、流量测量、物位测量及控制系统集成。

作为工业现场参数测量仪表的主要生产商之一，我们为国内外的客户提供应用方面的专业知识、服务及支持。

公司产品的质量、精度及性能来自于四十年的经验，以及对于最新技术的创新设计与持久开发。

Anhui Tiankang (Group) Co., Ltd is a company famous for the manufacturing and design of instruments and meters at home, its products are applied to process industry, process control, achievement of temperature measurement, stress measurement, flow measurement, level measurement and control system integration.

As one of the main producers of industrial field parameter measuring instruments, we provide professional knowledge, service and support in the application for domestic and oversea clients.

The quality, accuracy and performance of the Company's products come from forty years of experience, as well as innovative design and sustainable development of the latest technology.

健康与安全

Health And Safety

为了确保我们的产品安全，不影响健康，务必注意以下各点：

- 1、使用前必须仔细阅读说明书的有关章节。
- 2、必须遵守容器或包装上的警示标签。
- 3、必须由经过培训的人员按照所列信息进行安装、操作、维护及保养。一切由于违反本说明书而造成的后果均由用户承担。
- 4、务必遵守一般的注意事项，以避免在高压或高温下运行时发生事故。

In order to ensure our product safety and do not affect the health, make sure to pay attention to the following points:

1. Make sure to read relevant chapters of the Instructions carefully before use.
2. Make sure to follow caution Label on the container or packaging.
3. Make sure that installation, operation, maintenance and preservation are performed by trained staff according to information listed. All consequences caused by violation of the Instructions shall be assumed by users.
4. Make sure to follow general notes to avoid accident in operation under high pressure and temperature.

有关本手册所述设备使用的安全事项或任何相关的危害数据表（适用时）可以从公司取得，地址如封底所示，同时提供保养及备件信息。

Safety precautions relevant to equipment use described in the Manual and any relevant hazard data table (where applicable) can be obtained from the Company. Address is shown as the back cover and information on maintenance and spare parts is provided at the same time.

液位计使用说明书

Operation Instruction for Liquid Level Indicator



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液位计使用说明书

Operation Instruction for Liquid Level Indicator



引言

Instruction

天仪®系列液位计是由安徽天康（集团）股份有限公司推出，采用现场安装方式，是一种适用于高温、高压、强酸、强碱及防爆的液位测量、控制与检测的工业仪表。安徽天康（集团）股份有限公司40年的产品研发、改进和应用经验，凭借着原有的基础，不断的引进先进技术和设备使液位计产品性能更可靠、性价比更高。

Tianyi® series content gauge is released by Anhui Tiankang (Group) Co., Ltd, adopting the way of field installation. This is a meter suitable for high temperature, high stress, strong acid, strong base and anti explosion, it is also an industrial meter for control and inspection. Forty years of R&D on product, improvement and application experience, Anhui Tiankang (Group) Co., Ltd depended on original basis continuously introduces the advanced technologies and devices to make the content gauges more reliable in performance and higher in cost performance.

液位计分为：UHZ-50/C型、UHZ-50/D、UHZ-50/S-UR/UB、UHZ-50/S-UK、TK-UYZ3、TK-UQB-6、TK-UQK-01-03型、TK-UB-5型。

其产品的特点如下：

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，显示方向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。

Liquid level indicator is divided into UHZ-50/C type, UHZ-50/D, UHZ-50/S-UR/UB, UHZ-50/S-UK, TK-UYZ3, TK-UQB-6, TK-UQK-01-03 type, TK-UB-5 type

The characteristics of its products are as follows:

1. Suitable for the liquid level measurement of liquid medium in container, in addition to on-site display, it can be equipped with the functions of teletransmission transmitter, liquid level controller.

2. The display is intuitive and striking, the display direction can be changed as required by the user.

3. The range of measurement is large and is not limited by the height of container.

4. Component and measured medium of the displayer is completely isolated, so the leakproofness is reliable and safe.

5. The structure is sample, which can be easy to install and repair.

6. It can resist against the corrosion and explosion

液位计使用说明书

Operation Instruction for Liquid Level Indicator



运输

Transportation

包装成箱的液位计，在避免雨（雪）淋的条件下需遵守JB/T9329-1999《仪器仪表运输贮存基本环境条件》GB/T15464-1995《仪器仪表包装通用技术条件》运输标准。

Liquid level indicator packed with box needs to follow transportation standard of JB/T9329-1999 Basic Environmental Conditions for Instruments Transportation and Storage and GB/T15464-1995 General-purpose Specification for the Packaging of Instrumentation Products under the condition of keeping away from rain (snow).

搬运

Handling

搬动仪表时无需任何特殊保护措施，但需遵守轻搬轻放等注意事项。

When handling instrument, no any special protective measure is needed, but follow notes of light moving and light placing.

储藏

Storage

液位计应储存于干燥通风的室内，室内空气应洁净并对仪表无腐蚀作用。

液位计如不立即安装，请不要打开包装，而且仪表应在储存期间受到保护，不要受到外界原因引起损害。

卸下的液位计应与湿气和灰尘隔离，推荐使用原有的包装材料。

Bimetal thermometer shall be stored in dry and ventilated room and indoor air shall be clean, without corrosive action on the instrument.

If the bimetal thermometer is not installed immediately, do not open the package, and the instrument shall be protected during storage, not damaged by external reasons.

The disassembled bimetal thermometer should be separated from moisture and dust and it is recommended to use the original packaging material.

工作原理

UHZ-50/C型系列侧装式磁性浮球液位计(液位计)

液位计采用连通器的原理。使容器内液体等高引入到液位计主体内。在主体内的漂浮的浮球组件，根据浮力原理和磁性耦合原理。在主体外附靠能反映磁现象的翻柱作为液面位置的显示。随主体内液位的变化，浮球组件的高低也相应变化。从而使主体外的翻柱作180度的翻转，当液位上升时，翻柱由白色转为红色，当液面下降时，翻柱由红色转为白色。显示器的红、白界位处为容器内介质液位的实际高度。从而实现液位的检测目的。

UHZ-50/D型系列顶装式磁性浮球液位计

根据浮力原理和磁性耦合原理制成的，当被测容器内的液位上下变化时带动浮球，并通过与之相连的连杆上端的永久磁钢上下移动，经磁性耦合而使显示器中的翻柱翻转。当液位上升翻柱由白色转为红色，当液位下降时翻柱由红色转为白色，红色界位处就为容器内介质液位的实际高度，从而实现液位自动跟踪显示。

UHZ-50/S-UR/UB系列插入式磁性浮球液位变送器

插入式磁性浮球液位变送器的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，经专用模块转换成电流输出。



Working principle

UHZ-5-/C-type series side-installed magnetic floating ball liquid level indicator (liquid level indicator)

Liquid level indicator adopts the principle of communicating vessels to make the liquid in container be in equal altitude and introduced into the main body of the liquid level indicator. The floating ball component in main body is adopted by buoyancy principle and magnetic coupling. The reversible column can reflect magnetic phenomenon is taken as the display of liquid surface enclosed by the outer of main body. With the change of the liquid surface in the container, the height of the floating ball component changes accordingly. So that the reversible column can be turned over for 180-degree; when the liquid level rises, the reversible column will be changed from the red into white. The red, white interface level of the display is the actual height of the medium liquid level in container. Thereby, purpose of inspection of liquid level can be achieved.



UHZ-50/D-type series top-installed magnetic floating ball liquid level indicator

It is made by the buoyancy principle and magnetic coupling principle; when the floating ball is driven by the change of liquid level of measured container and moves up and down with the connected permanent on the top of connecting rod, the reversible column in display will turn over through the magnetic coupling. When the liquid level rises, the reversible column will be changed from the white into red, when the liquid level goes down, the reversible column will be changed from red into white, the red interface level of the display is the actual height of the medium liquid level in container. Thereby, the display of automatic tracking of liquid level will be achieved.



UHZ-50/S-UR/UB series insert type magnetic floating ball liquid level transmitter

There is a group of dry reed pipe and precision resistance that installed in main conduit of insert type magnetic liquid level transmitter; when the floating ball in the outer of the conduit with annular magnetic steel changes up and down along with the liquid level by buoyancy, the dry reed pipe that is located in the liquid level in main conduit will be closed (connected) successively under the action of magnetic field accordingly, so that the resistance value of the loop will be changed accordingly and is transformed into current to output.



液位计使用说明书 Operation Instruction for Liquid Level Indicator



TK-UYZ3型系列电容物位计

电容式物位计由电容式物位传感器和检测电容的线路组成。其基本工作原理是电容式物位传感器把物位转换为电容量的变化，然后再用测量电容量的方法求知物位数值。



TK-UB-5型系列玻璃板（管）液位计

玻璃板液位计是基于连通器原理设计的，由玻璃板及液位计主体构成的液体通路是经接管用法兰或锥管螺纹与被测容器连接构成连通器，透过玻璃板观察到的液面与容器内的液面相同即液位高度。



玻璃管液位计由上、下阀门及玻璃管、保护套等组成。阀门法兰与容器接管法兰相接，启闭阀门，即成液位显示器。



液位计使用说明书 Operation Instruction for Liquid Level Indicator



TK-UYZ3-type series capacitive level meter

Capacitive level meter is composed of capacitive level transducer and detection capacitance. Its basic operation principle is the change of the capacitive level transducer transforming the material level into capacitance, then obtaining the numerical value of material meter with the method of detection of capacitance.



TK-UB-5-type series glass plate (tube) liquid level indicator

Glass plate liquid level indicator is designed based on the theory of communicating level; the liquid path composed by glass plate and the main body of liquid level indicator is composed by the connection of the flange or taper pipe thread and measured container through gas fitting, the liquid level of observed through glass plate and the liquid level in the container is the same, namely, the height of liquid level.



Glass tube liquid level indicator is composed of upper, lower valve and glass plate and protective jacket. Valve flange is connected with pipe flange of container to start and stop the valve, which becomes the display of liquid level.



液位计性能概述

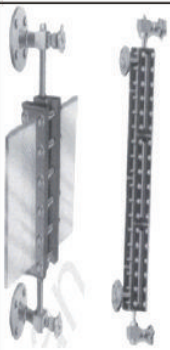
Performance overview of liquid level indicator

类型 Type	图例 Figure	测量 范围 Measur ement range	测量 精度 Mea sure ment accu racy	介质 密度 Mediu m densit y	工作 压力 Working pressure	过程连接 Process connection	
						连接 类型 Connection type	材质 Material
UHZ-50/C 型 系列顶装式 磁性浮球液 位计 UHZ-50/D-type series top-installed magnetic floating ball liquid level indicator		0~300mm , 0~6000mm	± 10mm	≥ 0.5g/ cm ³	1.0, 1.6, 2.5, 4.0 6.3~15 MPa	法兰固 定 Flange fixed	不锈钢、碳钢、不锈 钢衬 PTFE/PP/PVC Stainless steel, carbon steel, stainless steel liner, PTFE/PP/PVC
UHZ-50/D 型 系列顶装式 磁性浮球液 位计 UHZ-50/D type series top-installed magnetic floating ball liquid level indicator		500~5000 mm	± 10mm	≥ 0.5g/ cm ³	≤ 2.5Mpa	法兰固 定 Flange fixed	不锈钢、碳钢 Stainless steel, carbon steel

配套 UHZ-50/S-UR /UB 系列插入 式磁性浮球 液位变送器 Attached UHZ-50/S-U R/UB series insert type magnetic floating ball liquid level transmitter		0~6000 mm	±2.5 %F.S	=0.5g/ cm ³	< 1.6Mpa	法兰 固 定 Flang e fixed	不锈钢、碳钢 不锈钢+PTFE Stainless steel, carbon steel, stainless steel+ PTFE
UHZ-50/S-U K 插入式磁 性浮球控制 器 UHZ-50/S-U K insert type magnetic floating ball controller			±10mm	> 0.5g/ cm ³	1.0 , 1.6 , 2.5M Pa	法兰 固 定, 螺 纹 固 定 Flang e fixed, threa d fixed	不锈钢、碳钢 不锈钢+PTFE Stainless steel, carbon steel, stainless steel + PTFE

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TK-UYZ3 型系列电 容物位计 TK-UYZ 3 type series capacitiv e level meter		500~100 00mm	非防爆 1.0 级, 防爆 1.5 爆 Degree 1.0 of non-explosi on proof, degree 1.5 of explosion proof	2.5M Pa	法 兰 JB/TB 1-94P N25 DN40 Flang e JB/TB 1-94P N25 DN40	不锈钢、碳钢 Stainless steel, carbon steel
TK-UB-5 型系列玻 璃板(管) 液位计 TK-UB-5 type series glass plate (tube) liquid level indicator		500~170 0mm	6mm	≈4.0M Pa	DN20 法兰 侧装 式 DN20 flange side-i nstall ed	不锈钢、碳钢 Stainless steel, carbon steel

特殊设计和应用

Special design and application:

如您需要的产品型号未包含在本产品数据表中, 请向安徽天康(集团)股份有限公司产品工程师进行咨询。另需要液位变送器与控制器的请与工程师联系。如您需要的产品型号未包含在本产品数据表中, 请向安徽天康(集团)股份有限公司产品工程师进行咨询。

If product model you need is not included in the product data table, consult the Product Engineer of Anhui Tiankang (Group) Co., Ltd. Contact the Engineer for the need of liquid level transmitter and controller separately. If product model you need is not included in the product data table, consult the Product Engineer of Anhui Tiankang (Group) Co., Ltd.

注:
Note:

液位计使用说明书 Operation Instruction for Liquid Level Indicator



安装使用和维护

Installation, use and maintenance

UHZ-50/C型系列测装式磁性浮球液位计

1. 液位计安装必须垂直, 以保证浮球组件在主体管内能上下运动自如。(如图三所示)
2. 最好在容器与液位之间装截止阀, 以便清洗和检液位计时切断物料。
3. 液位计主体管周围不容许有导磁体靠近, 否则直接影响液位计的正常工作的。
4. 液位计安装完毕后, 需要用磁钢进行校正, 对翻柱导引一次使零位一下显示红色, 零位以上显示白色。
5. 液位计投入运行时应先打开引液管阀门让液体介质平稳进入主导体, 避免液体介质带着浮球组件急速上升, 而造成翻柱翻转失灵和乱翻。(若发生此现象待液面平稳后可用磁钢重新校正。
6. 根据介质情况, 可定期打开排污法兰清洗主体管内沉淀物质。

UHZ-50/C-type series side-installed magnetic floating ball liquid level indicator

The installation of liquid level indicator shall be vertical to ensure that the floating ball component can move up and down freely in the tube of main body. (As shown in Fig. 3)

Cut-off valve shall be installed between the container and liquid level to clean and cut off the material when detecting the liquid level indicator.

Around tube of main body of liquid level indicator shall not be closed by magnetizer, otherwise, the normal operation of liquid level indicator can be directly affected.

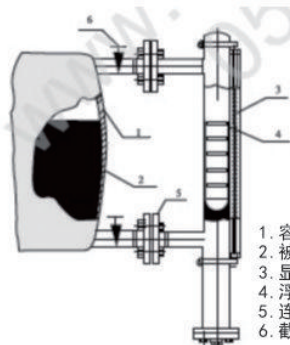
After the installation of the liquid level indicator, it needs to be calibrated by magnetic steel; then reversible column shall be guided by the magnetic steel to make the below of zero position display in red and the upper of zero position display in white.

When the liquid level indicator is put into operation, the valve of priming tube shall be opened firstly to make the medium enter the prime conductor to avoid rapid rising of liquid medium with floating ball component, which causes the failure of overturning or overturn in a mess for the reversible column. (If the phenomenon happens, it can be recalibrated by magnetic steel after the stability of liquid level)

The pollution discharge flange can be opened to clean the sediment material in tube of the main body on regular basis according to the medium condition.

液位计使用说明书

Operation Instruction for Liquid Level Indicator



图三 安装图

Fig. 3 Installation Diagram

UHZ-50/D型系列顶装式磁性浮球液位计

安装使用和维护

1. 液位计护导管和主体导管必须保持垂直。
2. 连杆不能弯曲，必须挺直插入。
3. 安装完毕后，需对显示器的翻柱用磁钢引导一次使零位以上显示白色，零位一下显示红色。
4. 结构形式如图五所示。

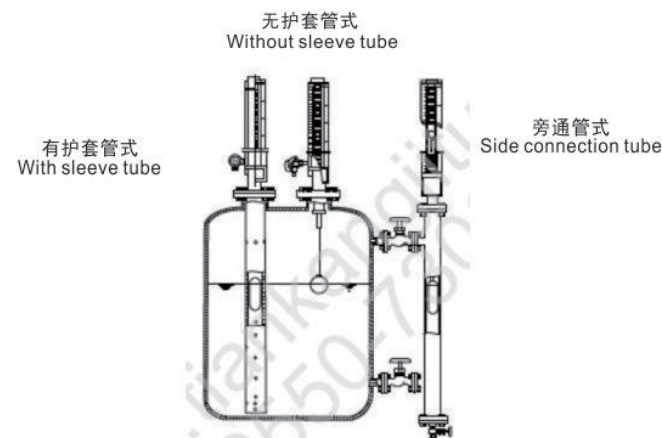
UHZ-50/D type series top-installed magnetic floating ball liquid level indicator

Installation, use and maintenance

1. Protective conduit and conduit of main body of the liquid level indicator shall keep vertical.
2. Connecting rod cannot be bended and must be inserted straightly.
3. After the installation, the reversible column of the displayer shall be guided by the magnetic steel to make the upper of zero position display in white and the below of zero position display in red.
4. Structure form is shown in Fig. 5

液位计使用说明书

Operation Instruction for Liquid Level Indicator



图五 安装结构形式

Fig. 5 Installation Structure Form

UHZ-50/S-UR/UB系列插入式磁性浮球液位变送器

安装使用和维护

1. 液位变送器的安装位置，应选择避开或远离液体介质的进口处，减少介质流体对浮球的冲击而产生的影响。
2. 如量程超过3米，变送器的管底要定位避免主导管晃动。

UHZ-50/S-UR/UB series insert magnetic floating ball liquid level transmitter

Installation, use and maintenance

1. Installation position of liquid level transmitter shall be away from or far from entrance of liquid medium and the influence produced from shock of medium fluid to floating ball shall be reduced.
2. If range is more than three meters, the base of transmitter shall be located to avoid the primary tube shaking.

UHZ-50/S-UK插入式磁性浮球控制器

安装使用和维护

1. 控制器的安装应避免被测介质的进液口处以减少介质对磁性浮球的冲击引起控制误差。

UHZ-50/S-UK insert-type magnetic floating ball controller

Installation of controller shall be away from the liquid inlet of measured medium to reduce control error produced from shock of medium to magnetic floating ball.

应用须知

Application instruction

1. 侧装式液位计与被测容器的上下分液管间最好各装一只截至阀门以便打开或关闭液位计；另一方面为维修液位计带来方便。在上下截止阀关闭时。可打开液位计底部 排污法兰或卸下排污螺钉，注入清水即可清洗液位计的主体。

2. 安装液位计法兰中心线垂直度 $\angle 4\%$ ，当液位计的测量范围大于3米时。需要考虑增加中间加固法兰（或耳朵攀）作固定支撑以增加强度。

3. 配套远传液位计变送器与二次仪表之间连接，则要求连接的芯线截面面积应大于 0.8mm^2 。与交流电源同路平行铺设时，至少应保持20厘米以上的间距，最好单独穿铁管铺设，或用屏蔽二芯电缆铺设，屏蔽层只能一端接地。

4. 选用液位控制器，其触电容量，均以阻性负载设计如用非阻性或大功率负载则要用中间继电器转换。

5. 对液体介质中含有悬浮杂志和亲磁物质的场合，不宜使用磁性浮球液位计（因这些杂质会对浮子组件造成卡阻）

6. 外形结构图中的“L1”为侧装式液位计的“沉筒距”此参数用户必须了解，该参数与介质密度有关，根据浮力原理，浮子组件的长度与介质密度有关，故在选用设计时必须要考虑不同的介质有不同的L1详细参数表三（仅作参考）

1. Cut-off valve had better to be respectively installed between upper distribution pipe and lower distribution pipe of side mounted liquid level indicator and the measured container so that liquid level indicator can be opened or closed and in the other hand, it is convenient to repair liquid level indicator. When the upper and lower cut-off values are closed, open bottom of liquid level indicator or flange of pollution discharge or remove the drain screw and inject the clean water to clean the main body of liquid level indicator.

2. Verticality of center line of flange shall be $\angle 4\%$ for installation of liquid level indicator. When the measurement range of liquid level indicator is more than three meters, it needs to be considered that intermediate reinforcement flange shall be increased as fixed support to gain strength.

3. For the connection between matching remote liquid level transmitter and secondary instrument, the area of section of connective core wire is required to be more than 0.8mm^2 . When laying the wire in the same way and in parallel with the AC power, the separation distance shall be kept at least more than 20 centimeters and it had better to be placed by the penetration of iron pipe alone or by shielded double core cable and only one end of shielding layer can be connected with ground.

4. For selecting a liquid level controller, the electric shock capacity shall be all designed for resistive load. If using non-resistive load or high power load, intermediate relay will be used for transformation.

5. For the occasion where liquid medium contains suspending impurity and material that is close magnetism, magnetic floating ball liquid level indicator is unsuitable to be used. (Because these impurities will cause jamming for the floater components.)

6. "L1" in the outline structure diagram refers to "cylinder distance" of side mounted liquid level indicator. Users have to learn about this parameter and it is relative to medium density. According to the buoyancy principle, the length of floater component is relative to medium density. Thus, it has to be considered that there are different values of L1 for different mediums when selecting design. See Table 3 for detailed parameter (only for reference)

表三

液体介质密度与沉筒距对照表（见表三）

Table 3 Comparison table of liquid medium density and cylinder distance(as shown in Table 3)

液体介质密度 Liquid medium density	沉筒距 Cylinder distance	常用液体介质 Common liquid medium
0.45~0.60	450~600	液化石油气、液氨 Liquefied petroleum gas, liquid ammonia
0.61~0.74	300~500	汽油、丁二烯 Gasoline - butadiene
0.75~0.85	250~300	甲醇、轻油、二甲苯 Methanol, Light oil, Xylene.
0.86~0.99	220~250	丙酮、啤酒 Acetone, Beer
1.00~1.10	200~220	水、醋酸 Water, Acetic acid
1.11~1.25	170~200	盐酸、焦油 Hydrochloric acid, Tar
1.26~1.39	160~170	液碱、20%稀硫酸 Liquid caustic (soda), Dilute sulfuric acid of 20%
1.40~1.59	150~160	液氨、氯仿、浓硫酸 Liquid ammonia, Chloroform, concentrated sulfuric acid
1.60~2.00	120~150	氟油、98%硫酸 Fluorocarbonized oil, Sulfuric acid OF 98%

7. 防腐性公称压力 $\leq 1.0\text{MPa}$

8. 液位计有一定的盲区，故在读取液位高度时应加上盲区值补偿（本厂液位计出厂时，标尺刻度零位已迁移到实际值。）

9. 液位计测量范围不超过5m，否则影响液位计的稳定可靠、牢度等。

10. 安装连接法兰，常用突面尺寸参考（HG20592-97）制造。

11. 控制器输出开关触电功率较小，在使用过程中最好采用中间继电器。

7. Corrosion-resistance nominal pressure $\leq 1.0\text{MPa}$

8. There is certain dead zone of liquid level indicator. Thus, the compensation of dead zone value shall be added when reading height of liquid level. (When liquid level indicator is delivered from the factory, the zero point of scale label has been moved to the actual value.)

9. Measurement range of the liquid level indicator shall not be more than 5 meters, otherwise the stabilization, reliability and fastness and other aspects of liquid level indicator will be affected.

10. For installation and connection of flange, refer to the size of common raised face (HG20592-97) when manufacturing.

11. Electric power of output switch of controller is smaller, so intermediate relay had better be used in the use process.

液位计使用说明书

Operation Instruction for Liquid Level Indicator



产品选型

Product prototyping

产品系列代号 Product Code	UHZ-50/C 型磁性浮球液位计 UHZ-50/C TypeMagnetic Floting Ball Liquid Level Indicator									
系列型号 Serial code	C1 基本型 Basic Type		C2 夹套型 Clip type		C3 防腐型 Corrosion-proof Type					
主体材料 Main Body Material	1	304								
	2	全 (whole)1Cr18Ni9Ti								
	3	316L								
	5	PVC		适用防腐型 Suitable with corrosion-proof type						
	6	PP								
	7	304+PTFE		316+PTFE						
	8	其它								
	连接法兰型式 Connection Flange Type		G 平焊法兰 Horizontal welded flange		Y 凸面法兰 Convex flange		T 活套法兰 Sleeve flange			
0 光显示无配套仪表 Light display, without attached instrument		1 上接线盒式配Ur变送器 Upper Connection Box with Ur Transmitter Attached		2 下接线盒式配Ur变送器 Lower Connection Box with Ur Transmitter Attached		3 上接线盒式配Ub变送器 Upper Connection Box with Ub Transmitter Attached				
4 下接线盒式配Ub变送器 Lower Connection Box with Ub Transmitter Attached		5 上接线盒式配Uk变送器 Upper Connection Box with Uk Transmitter Attached		6 下接线盒式配Uk变送器 Lower Connection Box with Uk Transmitter Attached		配套仪表与安装型式 Instru-ments At-tached &Installation Type				
0 无接线盒 Without wire connection box		S 普通防水性 Common water-proof type		D 隔爆Exd II BT4-6 Explosion-isolated Exd II BT4-6		E 本安Exia II CT4-6 Intrinsic Safety Exia II CT4-6				
测量范围 Measuring Range (mm)		D 开口容器 Container with open mouth		工作压力Mpa Working Pressure		工作温度℃ Working Temperature ℃				
介质密度g/cm³ Medium Density g/cm³										

液位计使用说明书

Operation Instruction for Liquid Level Indicator



产品系列代号 Product Code	UHZ-50/D 型磁性浮球液位计 UHZ-50/D TypeMagnetic Floting Ball Liquid Level Indicator											
系列型号 Serial code	D1 基本型 Basic Type		D2 防腐型 Corrosion-proof Type									
结构型式 Structure type	W 无护套管式(适用高粘度介质) Without sleeve Tube(suitable with medium of high viscosity)		E 有护套管式 With sleeve tube		P 旁通管式 Side connection tube							
	1 1Cr18Ni9Ti(连接法兰为碳钢) (carbonized steel for connection flange)		2 全 (whole)1Cr18Ni9Ti		3 316		4 316L		5 PVC		适用防腐型 Suitable with corrosion-proof type	
主体材料 Main Body Material	6 PP		7 304+PTFE		8 其它							
	连接法兰型式 Connection Flange Type		G 平焊法兰 Horizontal welded flange		Y 凸面法兰 Convex flange		T 活套法兰 Sleeve flange					
	0 光显示无配套仪表 Light display, without attached instrument		1 上接线盒式配Ur变送器 Upper Connection Box with Ur Transmitter Attached		2 下接线盒式配Ur变送器 Lower Connection Box with Ur Transmitter Attached		3 上接线盒式配Ub变送器 Upper Connection Box with Ub Transmitter Attached		4 下接线盒式配Ub变送器 Lower Connection Box with Ub Transmitter Attached		5 上接线盒式配Uk变送器 Upper Connection Box with Uk Transmitter Attached	
	6 下接线盒式配Uk变送器 Lower Connection Box with Uk Transmitter Attached		配套仪表与安装型式 Instru-ments At-tached &Installation Type									
0 无接线盒 Without wire connection box		S 普通防水性 Common water-proof type		D 隔爆Exd II BT4-6 Explosion-isolated Exd II BT4-6		E 本安Exia II CT4-6 Intrinsic Safety Exia II CT4-6		接线盒型式 Wire Connection Box Type				
测量范围 Measuring Range (mm)		D 开口容器 Container with open mouth		工作压力Mpa Working Pressure		工作温度℃ Working Temperature ℃						
介质密度g/cm³ Medium Density g/cm³												

液位计使用说明书

Operation Instruction for Liquid Level Indicator



UHZ-50/S 插入式磁性浮球液位计 UHZ-50/S Insert Type Magnetic Floating Ball Liquid Level Indicator			
UR UB	电阻信号 二线制4-20mA	Resistance Signal Double Wire System 4-20mA	输出信号 Output Signal
0无就地指示器 (图十三B) Without indicator on-the-spot (Figure 13-b)			就地指示型式 On-the-spot Indication Type
Z指针指示 (图十三C) Indicator (Figure 13-c)		适用UB变送器	
X液晶显示 (图十三A) Liquid crystal display (figure 13-a)			
主体材料 Main Body Material	1	1Cr18Ni9Ti (连接法兰为碳钢) (carbonized steel for connection flange)	
	2	全 (whole) 1Cr18Ni9Ti	
	3	316	
	4	316L	
	5	PVC	
	6	PP	
	7	304+PTFE	
	8	其它	
1. 法兰连接材质为碳钢 2. 法兰连接材质为不锈钢 3. 架装固定		Carbonized steel for flange connection material Stainless steel for flange connection material Fixed on stand	安装型式与材质 Installation way & Material
0 无防爆要求 D 隔爆Exd II BT4-6 E 本安Exia II CT4-6		Without explosion demands Explosion-isolated Exd II BT4-6 Intrinsic Safety Exia II CT4-6	防爆要求 Explosion-proof demands
D 开口容器 □ 工作压力		Container with open mouth Working Pressure	工作压力Mpa Working Pressure Mpa
工作温度℃ Working Temperature ℃			
介质密度g/cm³ Medium Density g/cm³			

液位计使用说明书

Operation Instruction for Liquid Level Indicator



UHZ-50/S-Uk 插入式磁性浮球液位计 UHZ-50/S-Uk Insert Type Magnetic Floating Ball Liquid Level Indicator			
YOX Y	表示磁性浮球数 Magnetic Floating Ball Number	X 表示控制点数 Control point number	系列型号 Serialcode
结构型式 Structure type	W 无护套管式 (适用高粘度介质) Without sleeve Tube (suitable with medium of high viscosity)	E 有护套管式 With sleeve tube	P 旁通管式 Side connection tube
	主体材料 Main Body Material		
1		1Cr18Ni9Ti (连接法兰为碳钢) (carbonized steel for connection flange)	
2		全 (whole) 1Cr18Ni9Ti	
3		316	
4		316L	
5		PVC	
6		PP	
7		304+PTFE	
8		其它	
1. 法兰连接材质为碳钢 2. 法兰连接材质为不锈钢 3. 架装固定 4. 螺纹连接测量范围<500常温常压		Carbonized steel for flange connection material Stainless steel for flange connection material Fixed on stand Thread connection measuring range < 500 under normal temperature and pressure	安装型式与材质 Installation way & Material
0 无防爆要求 D 隔爆Exd II BT4-6 E 本安Exia II CT4-6		Without explosion demands Explosion-isolated Exd II BT4-6 Intrinsic Safety Exia II CT4-6	防爆要求 Explosion-proof demands
量程高度 (插入最大深度) Measuring Height (Max. Insert Depth) mm			
K 自上向下第一控制点为常开 B 自上向下第一控制点为常闭		Open for the highest control point Close for the highest control point	控制高度 Control Height
K 自上向下第二控制点为常开 B 自上向下第二控制点为常闭		Open for the second highest control point Close for the second highest control point	Control Height
D 开口容器 □ 工作压力		Container with open mouth Working Pressure	工作压力Mpa Working Pressure Mpa
工作温度℃ Working Temperature ℃			
介质密度g/cm³ Medium Density g/cm³			

订货须知

Ordering instruction

1. 订货时须写明产品的型号、测量范围、安装方式、精度级别等技术参数。
2. 需要户外型和防腐型品种的须注明。
3. 用户有特殊要求时，须注明。

1. Product model, measurement range, installation, accuracy level and other technical parameters must be indicated when ordering.
2. Variety of outdoor type and corrosion prevention needed shall be indicated.
3. Special requirements of users shall be indicated.