

TK-YB静压式/TK-HB导压式液位变送器

TK-YB Static Pressure Pressure /TK-HB Guiding Liquid Level Transmitter



TK-YB系列
TK-YB series



TK-HB系列
TK-HB series

一、TK-YB静压式液位变送器

TK-YB Transmitter

静压式液位变送器采用德国SENSE压力传感器原装组件生产，主要用于城市给排水、水处理厂、水库、河流、海洋、储油罐、及石油、化工、电力等部门的液位测量，被测介质可以是水、油、碱性液体。仪表输出二线制4~20mADC标准电流信号，具有技术先进、精高度、质量稳定可靠，安装使用方便等优点，是一种过程检测控制系统中理想的液位仪表。

Static pressure liquid transmitters are manufactured with original assemblies of German SENSE pressure sensors. It is mainly used for level measurement in urban water supply and drainage, water treatment plant, reservoir, river, ocean, oil tank, and departments like petroleum, chemical engineering and electric power. The medium being measured can be water, oil, and alkaline liquid. The instrument outputs two-wire system of 4~20mADC standard current signal. Being advanced in technology, high in accuracy, stable and reliable in quality and convenient to install and use, it is an ideal liquid level instrument in process detection and control system.

主要技术参数 Main technical parameters

- 测量范围：0.3~100m（由用户自选）；
- 精度：0.1级、0.5级；
- 工作温度：-20~80℃；
- 输出信号：二线制4~20mADC；
- 电源电压：24VDC， $\leq \pm 1.0\%PS$ ；
- 负载能力：0.600Ω；
- 相对湿度： $\leq 85\%$ ；
- 防护等级：IP68；
- 防爆标志：ExiaII CT4~6。
- Measurement range: 0.3~100m(selected by user himself).
- Working temperature: -20~80℃.
- Accuracy: 0.1 □ 0.5.
- Output signal: two-wire system 4~20mADC.
- Power supply voltage: 24VDC, $\leq \pm 1.0\%PS$.
- Load capacity: 0.600Ω.
- Relative temperature: $\leq 85\%$.
- Protection class: Ip68.
- Explosion proof sign: ExiaII CT4~6.

二、TK-HB导压式液位变送器

TK-HB air guide type liquid level transmitter

TK-HB导压式（静压）液位变送器是一种结构独特、实用性很强的液位仪表。它与传统的投入式液位计的最大不同点在于传感器不直接和介质接触。是通过导压管内空气将液位的高低变化，传到传感器上。这样就避免了传感器的堵塞，损害腐蚀，大大延长了仪表的使用寿命。因其独特的设计，使之特别适用于测量高温、高粘度、混浊、强腐蚀性液体。如重油、渣油、浆料、硫酸、污水等，是传统投入式液位变送器的理想替代品，导压式液位变送器广泛应用于石化、钢铁、能源、食品、污水处理、制药、自来水等行业的敞口容器的液位测量。

导压式液位变送器应用：工业现场液位测量与控制、城市供水及污水处理、石油、化工、电厂、水文监测、水库、大坝、水电建设等领域的液位的测量与控制。

TK-HB air guide type liquid level transmitter TK-HB pressure (static pressure) liquid level transmitter is a liquid level instrument with unique structure, strong practicability. The biggest difference between it and the traditional input type liquid level gauge is that the sensor is not directly contact with the medium. The liquid level is changed by the air in the air guide pipe, and the air is transferred to the sensor. In this way, the blockage of the sensor is avoided, the corrosion is damaged, and the service life of the meter is prolonged. Because of its unique design, so that it is particularly applicable to the measurement of high temperature, high viscosity, turbidity, strong corrosive liquid. As of heavy oil and residual oil slurry and sulfuric acid, sewage and other, traditional investment type liquid level transmitter is an ideal substitute of guide type liquid level transmitter is widely used in petrochemical, steel, energy, food, sewage treatment, pharmaceutical, water and other industries of the exposure container liquid level measurement.

Guide pressure liquid level transmitter application: industrial field liquid level measurement and control, urban water supply and wastewater treatment, petroleum, chemical industry, power plants, hydrological monitoring, reservoirs, dams, hydropower construction and in the field of liquid level measurement and control.

TK-YB型静压式液位变送器选型表

Type selection table of Tk-YB type static pressure type liquid level transmitter

型号 Model	变送器型号 Transmitter type
TK-YB	静压式 Static pressure type
代码 Code	过程连接膜片及材料 Process connection diaphragm and material
1	不锈钢316L膜片/过程1Cr18Ni9Ti Stainless steel 316L diaphragm/process 1Cr18Ni9Ti
2	钽膜片/过程316L Tantalum diaphragm/process 316L
9	陶瓷膜片/过程316L Ceramic diaphragm/process 316L
代码 Code	过程连接标准 Process connection standard
R	支架 L型 Frame L type
B	板状 Plate installation
Y	约定的特殊要求 Specified special requirements
代码 Code	密封材料 Seal material
1F	钢缆式 Cable type
3F	杆式 Rod type
9Y	约定的特殊要求 Specified special requirements
代码 Code	信号输出 Signal output
2	模拟信号4-20mA二线 Analog signal 4-20mA two wire
9	智能HART协议 Intelligent HART protocol
代码 Code	外壳显示 Shell display
5	铝外壳, 电缆孔M20×1.5 Aluminum shell, cable hole M20 * 1.5
9	数字显示31/2 LCD现场压力值 Digital display 31/2LCD, pressure value on site
代码 Code	精度等级 Accuracy class
3	0.10%
6	0.50%
1	1.00%
代码 Code	防爆等级 Explosion proof class
1	d II CT4隔离爆II类C级T6组 d II CT4 isolation explosion Category II Class C Group T6
2	ia II CT6本安型II类C级T4区 ia II CT6 intrinsic safety Category II Class C Group T4
代码 Code	量程、压力单位 Range, pressure unit
A	Kpa
B	mH2O
Y	其他 Other

安装附件
 安装支架
 标准电缆密封套
 外螺纹M20×1.5
 隔爆电缆密封套
 外螺纹M20×1.5
 用户选用附件, 请在选型代码后的括号内注明所要附件的代码。
 订货时请注明: 量程L=米
 请注明: 缆长或杆长H=米
 法兰安装式: 请注明法兰规格

installation accessories
 installation frame
 standard cable sealing cartridge
 outer threadM20×1.5
 Explosion proof cable seal sleeve
 outer threadM20×1.5
 When the user selects the accessories, please indicate the code of the required accessories in the bracket after the selection code.
 Please note during order:
 Range L= meter
 Please indicate cable length or rod length H= meter
 Flange installation type: please indicate the flange specification re
 Guiding Liquid Level Transmitter

TK-HB型导压式液位变送器选型表

TK-HB type guide pressure liquid level transmitter selection table

型号 Model	变送器型号 Transmitter type
TK-HB	导压式 Guide pressure type
代码 Code	过程连接膜片及材料 Process connection diaphragm and material
1	不锈钢316L膜片/过程1Cr18Ni9Ti Stainless steel 316L diaphragm/process 1Cr18Ni9Ti
2	钽膜片/过程316L Tantalum diaphragm/process 316L
9	陶瓷膜片/过程316L Ceramic diaphragm/process 316L
代码 Code	过程连接标准 Process connection standard
R	支架 L型 Frame L type
B	法兰（用户指定） Flange(User specified)
Y	约定的特殊要求 Specified special requirements
代码 Code	密封材料 Seal material
1F	钢缆式 Cable type
3F	杆式 Rod type
4F	防腐PTFE（与介质接触部分） Corrosion protection PTFE (contact with the medium)
9Y	高温：≤240℃
代码 Code	信号输出 Signal output
2	模拟信号4-20mA二线 Analog signal 4-20mA two wire
9	智能HART协议 Intelligent HART protocol
代码 Code	外壳显示 Shell display
5	铝外壳，电缆孔M20×1.5 Aluminum shell, cable hole M20 * 1.5
9	数字显示31/2 LCD现场压力值 Digital display 31/2LCD, pressure value on site
代码 Code	精度等级 Accuracy class
3	0.10%
6	0.50%
代码 Code	量程、压力单位 Range, pressure unit
A	Kpa
B	mH2O
Y	其他 Other

安装附件
安装支架
标准电缆密封套
外螺纹M20×1.5
隔爆电缆密封套
外螺纹M20×1.5
用户选用附件，请在选型代码后的括号内注明所要附件的代码。

订货时请注明：量程L=米
请注明：缆长或杆长H=米
法兰安装式：请注明法兰规格

installation accessories
installation frame
standard cable sealing cartridge
outer threadM20×1.5
Explosion proof cable seal sleeve
outer threadM20×1.5
When the user selects the accessories, please indicate the code of the required accessories in the bracket after the selection code.
Please note during order:
Range L= meter
Please indicate cable length or rod length H= meter
Flange installation type: please indicate the flange specification re Guiding Liquid Level Transmitter

