

TK6800电动压差式液位变送器

TK6800 Electric pressure differential liquid level transmitter

采用成熟的压差测量技术，通过特殊的结构设计使TK6800电动压差式液位变送器具有以下特点：

1、测量精度高、性能可靠、长期稳定性好，使用方便，广泛适用于电力、石油、化工、冶金、环保、建筑、食品等行业生产过程的液位测量与控制。

2、通用性强：可满足不同温度、压力、介质的液位测量要求，并可应用于腐蚀、高温、高压、冲击等恶劣场合。

3、免维护：测量过程无可动部件，不存在机械部件损坏问题，无需维护。

4、准确可靠：测量量多样化，使测量更加准确，测量不受环境变化影响，稳定性高，使用寿命长。

5、多数应用场所可替代电动浮筒式或射频导纳及雷达式液位变送器。

Mature pressure differential measurement technology is adopted. Special structural design is used so that the TK6800 electric pressure differential liquid level transmitter has following characteristics:

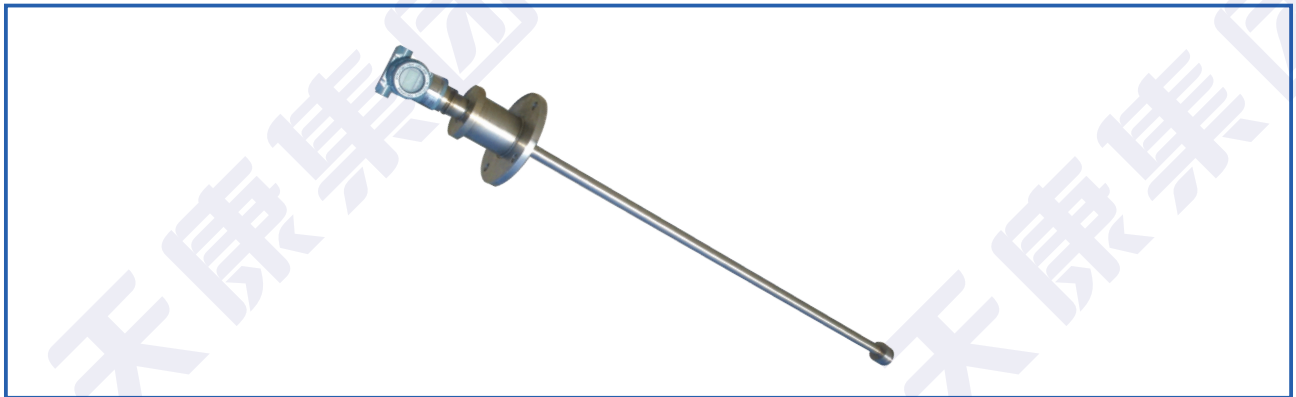
1.High measurement accuracy, reliable performance, good long term stability, convenient use, widely applicable to liquid level measurement and control in production in industries like electric power, petroleum, chemical engineering, metallurgy, environmental protection, architecture and food.

2.Highly general use: able to meet the measurement requirements of different temperature, pressure and medium and applicable to harsh conditions with corrosion, high temperature, high pressure and impact.

3.Maintenance-free: no movable part during measurement, no mechanical part damage, no need for maintenance

4.Accurate and reliable: diversified measurement, more accurate measurement, not affected by environmental change, high stability, long service life.

5.In most application cases, it is able to replace the electric buoy or radio frequency admittance and radar liquid level transmitter.



主要技术参数

- 测量范围：300-20000mm (更大量程可定做)
- 精度：液位测量 $\pm 0.1\%$ FS
- 量程比：10:1
- 重复性： $\leq \pm 0.05\%$ FS
- 电源：16~36VDC
- 输出信号：模拟量4-20mADC (HART协议)
- 液晶显示：mmH₂O, KPa, %
- 最大负载电阻:24VDC供电时
- 密度范围：100 ρ <math>< 3000\text{Kg/m}^3</math>
- 工作压力：2.5~16MPa
- 介质温度：-60℃~280℃
- 环境温度：-40℃~70℃
- 工作条件影响：
供电影响：当电压在规定电压的最小值与最大值之间变化时，输出变化 $\leq \pm 0.02\%$ FS
温度影响： $\leq 0.05\%/10^\circ\text{C}$
- 防护等级：IP67(NEMA 4X)
- 防爆等级：本安型ExiaIICT4-T6，隔爆型ExdIICT4-T6
- 电气接口：1/2-14NPT内螺纹，M20×1.5内螺纹
- 接线盒：铝合金

Main technical parameters

Measurement scope: 300-20000mm(customized for larger range)
Accuracy: liquid level measurement $\pm 0.1\%$ FS
Rang ratio: 10:1
Repeatability: $\leq \pm 0.05\%$ FS
Power supply: 16~36VDC
Output signal: analog 4-20mADC (HART protocol)
Liquid crystal display: mmH₂O, KPa, %
Maximum load resistor: when 24VDC power supply
Density range: $100 < \rho < 3000\text{Kg/m}^3$
Working pressure: 2.5~16MPa
Medium temperature: -60℃~280℃
Ambient temperature: -40℃~70℃
Influence of working conditions:
Power supply influence: when the voltage changes between the minimum value and the maximum value of the specified voltage, the output changes $\leq \pm 0.02\%$ FS
Temperature influences $\leq 0.05\%/10^\circ\text{C}$
Protection class: IP67(NEMA 4X)
Explosion proof class: intrinsic safety type, explosion proof type.
Electric interface: 1/2-14NPT inner thread, M20×1.5 inner thread
Terminal box: aluminum alloy

TK6800电动差压式液位变送器型号规格

Model and specification of TK6800 electric differential

型号 Model	变送器型号 Transmitter type
TK6800	电动压差式液位变送器 Electric differential pressure liquid level transmitter
代码 Code	压力量程 Pressure range
1	插入式200~300mmH ₂ O Inserted type200~300mmH ₂ O
2	沉入式1000~20000mmH ₂ O Immersion type1000~20000mmH ₂ O
3	汽包液位式(选型材料另询) Bubble level type (please inquire the selection material separately)
代码 Code	变送器类型 Transmitter type
A	基本型 -40~80℃ Basic type -40~80℃
B	高温型 -40~280℃ High temperature type -40~280℃
C	防腐型 -40~120℃ Corrosion prevention type -40~120℃
代码 Code	安装方式 Installation type
N	顶装式 Top installation type
H	侧侧外装式 Side side external installation type
C	侧底外装式 Side bottom external installation type
D	汽包液位型 Bubble level type
I	特殊型(客户提供图纸) Special type(Drawing provided by the customer)
代码 Code	配套选择 Accessory selection
X1	不带连通器 No communicating vessel
X2	配套连通器(用户提供参数) Supporting communicating vessel (Parameter provided by the user)
代码 Code	输出信号 Output signal
H	4~20mA HART
代码 Code	接液材质 Liquid connection material
A	316L Top installation type
B	316L+特氟龙 316L+Teflon
C	316L+聚四氟乙烯 316L+PTFE
代码 Code	安装法兰 Installation flange
A	DN80
B	DN65
C	用户指定 Customer designated
代码 Code	工作压力 Working pressure
P1	≤6.3MPa
P2	≤16MPa
代码 Code	电气接口 Electric interface
A	M20×1.5
B	1/2NPT
代码 Code	显示方式 Display method
A	mmH ₂ O
B	Kpa
C	%
代码 Code	防爆等级 Explosion-Proof
A	本安iaⅡCT4/CT6 Intrinsic safety iaⅡCT4/CT6
B	隔爆dⅡCT4/CT6 Explosion isolation dⅡCT4/CT6
出厂量程 L=mm Ex-work range L=mm 探极长度 H=mm Probe length H=mm	
TK6800 1 B H X2 C A P1 A B E5	