

## YDK-6 系列液位计

### YDK-6 series liquid level gauge

#### 1. 产品简介与型号说明 Product Introduction and Model Description

YDK-6 系列液位计，特点是螺纹连接，安装方便，密封可靠；主要功能是监控密封变压器的油位，当变压器油箱中的油位下降到一定位置时会触发液位计的开关触点。

本产品安装于变压器油箱顶部的升高座上，液位计外壳采用铝合金制成，表面可以按 C5 防腐处理。内部浮子上下垂直运动，通过磁力传动带动开关机构动作，浮子由耐油、闭孔的发泡丁腈耐油橡胶材料制成，以防止变压器油对浮子的渗透所带来的损坏，并保证浮力及稳定性。

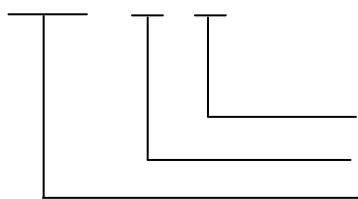
向变压器中注入适量的变压器油，使浮子达到最高点“停止”位置，浮子随液面下降到整定的液位时，触发报警开关，当液面上涨到整定位置上方 20mm 处时，开关机构复位，报警解除。

YDK-6 series liquid level gauge is characterized by threaded connection, convenient installation and reliable sealing; the main function is to monitor the oil level of the sealed transformer. When the oil level in the transformer tank drops to a certain position, the switch contact of the level gauge will be triggered.

This product is installed on the raised seat on the top of the transformer tank. The housing of the level gauge is made of aluminum alloy, and the surface can be treated with C5 corrosion protection. The vertical movement of the internal float is driven by a magnetic drive to actuate the switch mechanism. The float is made of oil-resistant, closed-cell foamed nitrile and oil-resistant rubber material to prevent damage caused by the penetration of transformer oil to the float, and to ensure buoyancy and stability.

Pour proper amount of transformer oil into the transformer to make the float reach the highest point "stop" position. When the float drops to the set level with the liquid level, the alarm switch is triggered. When the liquid level rises to 20mm above the set position, the switch mechanism resets, The alarm is released.

Y D K - 6 - A



电气接线类型 (A、B) Type of electrical wiring

设计序号 Design Number

带电气信号的液位计 Level gauge with electrical signal

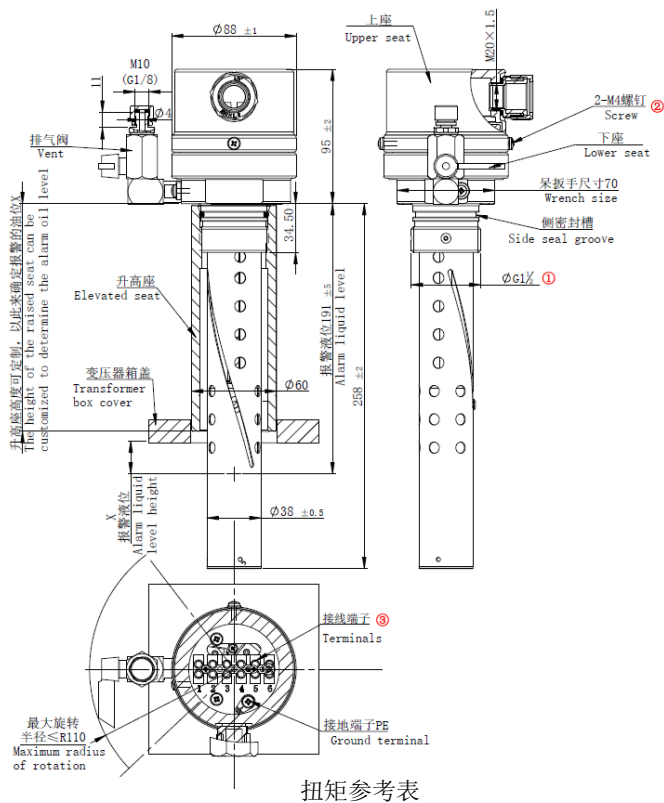
**标注实例：**YDK-6-A 液位计，即为第六次设计，带电气信号输出的液位计，液位报警位置在油箱下方（可通过调整升高座的高度来调节报警液位）

**Example annotation:** YDK-6-A level gauge, designed for the sixth time, with electrical signal output. The level alarm is located below the fuel tank (the alarm level can be adjusted by adjusting the height of the lifting seat)

**使用范围：**(a). 安装位置：油箱盖上、升高座上；(b). 环境温度：-30℃~+80℃(可根据用户需求定制最高可支持 -45℃~+80℃)，工作环境要求：-30℃~+125℃(可根据用户需求定制最高可支持 -45℃~+125℃)；(c). 相对湿度：当空气温度为 20℃时，相对湿度不大于 95%；(d). 防护等级：IP56。适用范围：海拔 0~4000m；(e). 开关容量：AC 220V 3A，DC 220V 1A；(f). 工频耐压：常开接点 2000V，1min，常闭接点或单刀双掷接点：相间 1000V，1min，对地 2000V，1min；(g). 绝缘性能：常开接点 2500V，500MΩ，常闭接点或单刀双掷接点：相间 1000V，500MΩ，对地 2500V，500MΩ。  
**Scope of use:** (a) Installation position: on the fuel tank cap, on the raised seat; (b) Environmental requirements: -30 °C to +80 °C (can be customized according to user needs to support up to -45 °C to +80 °C); Work environment requirements: -30 °C ~ +125 °C (customizable according to user needs, can support up to -45 °C ~ +125 °C); (c) Relative humidity: When the air temperature is 20 °C, the relative humidity should not exceed 95%; (d) Protection level: IP56. Scope of application: Altitude 0~4000m.; (e) Switch capacity: AC 220V 3A, DC 220V 1A; (f) Power frequency withstand voltage: normally open contact 2000V, 1min, normally closed contact or single pole double throw contact: phase to phase 1000V, 1min, ground 2000V, 1min; (g) Insulation performance: normally open contact 2500V, 500M Ω, normally closed contact or single pole double throw contact: phase to phase 1000V, 500M Ω, ground 2500V, 500M Ω.

## 2. 产品结构、外形尺寸 (见下图)

## Product structure and external dimensions (see figure below)



扭矩参考表

Torque Reference Table

序号 Number	装配位置 Assembly position	螺纹规格 Thread specification	推荐扭矩 Recommended torque	装配工具规格 Assembly tool specification	备注 Notes
①	法兰安装孔 Flange installation hole	G1½	60 ± 3Nm	70mm	
②	接线盒盖 Terminal box cover	M4	1.5 ~ 2Nm	PH2	建议手动安装 Suggest manual installation
③	接线端子 Connecting terminal	M3	0.5 ~ 1Nm		建议手动安装 Suggest manual installation

色卡编号 Color card No	颜色 Color	可选性 Optionality of choice
RAL7035	浅灰色 Light grey	默认 (Default)

## 3. 电气接线图 Electrical wiring diagram

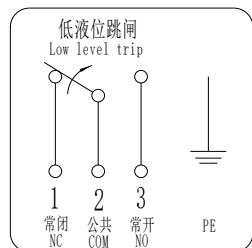


图 3.1 YDK-6-A 液位计 SPDT 电气接线图

Figure 3.1 YDK-6-A Level Gauge SPDT Electrical Wiring Diagram

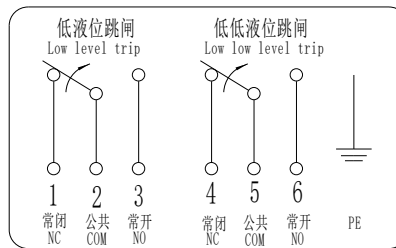


图 3.2 YDK-6-B 液位计 DPDT 电气接线图

Figure 3.2 YDK-6-B Level Gauge DPDT Electrical Wiring Diagram