

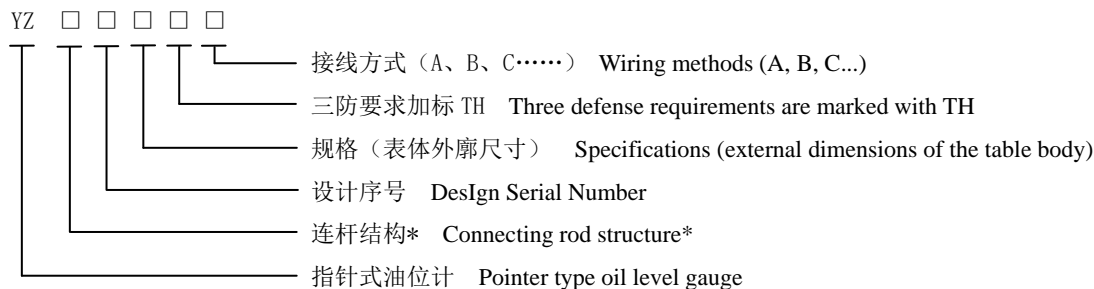
YZF3.2a-140TH 指针式油位计

YZF3.2a-140TH pointer type oil level gauge

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

YZF 型变压器用指针式油位计（简称油位计）是变压器储油柜的油位测试装置。可在变压器设定的最高、最低油位时发出报警信号，起到远距离监控的目的。按照连杆的摆动形式分为：上下摆动和左右摆动两种，分别适用于主储油柜和有载开关储油柜。

The YZF type transformer pointer type oil level gauge (abbreviated as oil level gauge) is an oil level testing device for transformer oil storage tanks. It can emit alarm signals when the transformer is set to the highest and lowest oil levels, achieving the purpose of remote monitoring. According to the swing form of the connecting rod, it can be divided into two types: up and down swing and left and right swing, which are respectively suitable for the main oil storage tank and the on load switch oil storage tank.



注：** 连杆结构形式：F 为直杆浮球式

Note: ** Connecting rod structure form: F is a straight rod floating ball type

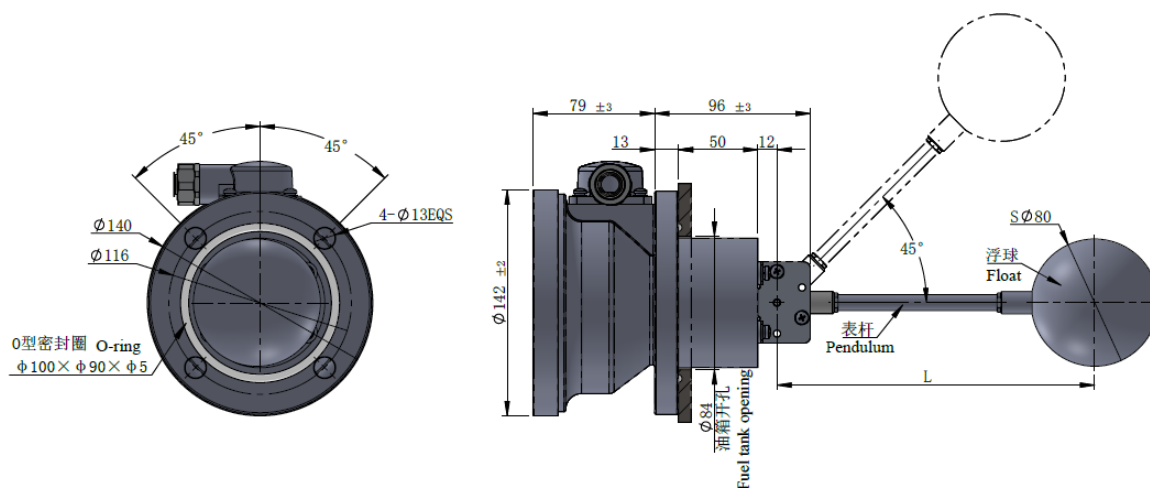
技术参数:

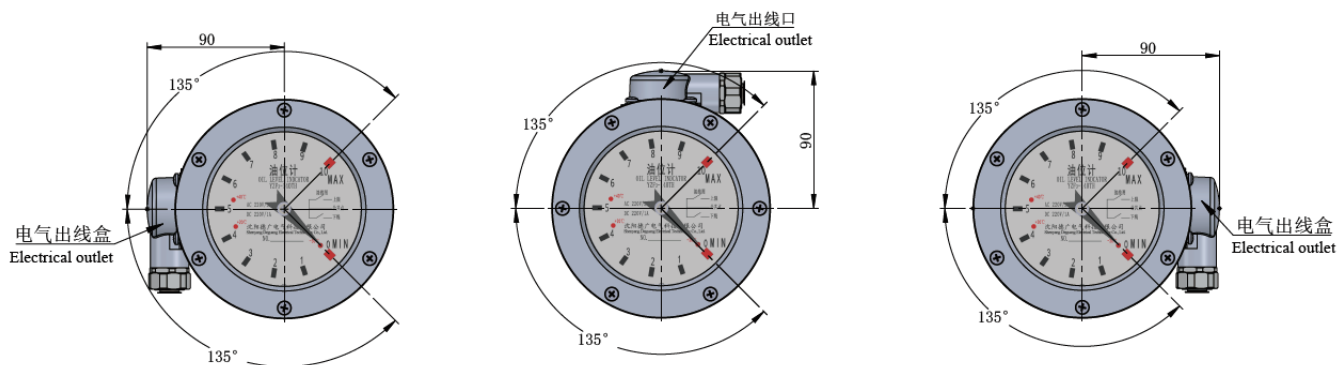
(a). 环境温度: $-30^{\circ}\text{C}\sim+70^{\circ}\text{C}$ (可根据用户需求定制最高可支持 $-45^{\circ}\text{C}\sim+70^{\circ}\text{C}$), 工作环境要求: $-30^{\circ}\text{C}\sim+115^{\circ}\text{C}$ (可根据用户需求定制最高可支持 $-45^{\circ}\text{C}\sim+115^{\circ}\text{C}$); (b). 相对湿度: 当空气温度为 20°C 时, 相对湿度不大于 95%; (c). 油温不高于 115°C ; (d). 无剧烈振动和颠簸的场所; (e). 指示误差: 小于全盘的 2.5%; (f). 长期稳定性: 不小于 10000 次; (g). 密封性能: 245kPa, 20min 无渗漏; (h). 防护等级: IP55 (可根据用户需求定制)。适用范围: 海拔 $0\sim 4000\text{m}$; (i). 开关容量: AC 220V 5A, DC 220V 0.3A; (j). 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; (k). 绝缘性能: 常开接点 2500V, 500M Ω , 常闭接点或单刀双掷接点: 相间 1000V, 500M Ω , 对地 2500V, 500M Ω 。

Technical parameters:

(a) Environmental requirements: -30°C to $+70^{\circ}\text{C}$ (can be customized according to user needs to support up to -45°C to $+70^{\circ}\text{C}$); Work environment requirements: $-30^{\circ}\text{C}\sim+115^{\circ}\text{C}$ (customizable according to user needs, can support up to $-45^{\circ}\text{C}\sim+115^{\circ}\text{C}$); (b) Relative humidity: When the air temperature is 20°C , the relative humidity should not exceed 95%; (c) The oil temperature should not exceed 115°C ; (d) Places without severe vibrations and bumps; (e) Indication error: less than 2.5% of the entire disk; (f) Long term stability: not less than 10000 cycles; (g) Sealing performance: 245kPa, no leakage for 20 minutes; (h) Protection level: IP55 (Customizable according to user requirements). Scope of application: Altitude $0\sim 4000\text{m}$.; (i) Switch capacity: AC 220V 5A, DC 220V 0.3A; (j) 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; (k) 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. 指针式油位计外形尺寸图 Outline dimension diagram of pointer type oil level gauge





YZF3.2a-140 油位计竖直出线型（左侧）

YZF3.2a-140 oil level gauge vertical output line (left side)

YZF3.2a-140 油位计水平出线型

YZF3.2a-140 oil level gauge horizontal output line type

YZF3.2a-140 油位计竖直出线型（右侧）

YZF3.2a-140 oil level gauge vertical output line (right side)

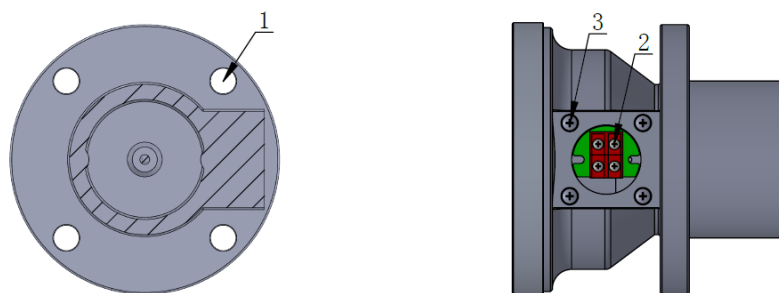
图 1 YZF3.2a-140 TH 指针式油位计

Figure 1 YZF3.2a-140 TH pointer type oil level gauge

本产品提供多种颜色选择，具体描述如下：




The product provides a variety of color options, specifically described as follows:

色卡编号 Color card No	颜色 Color	可选性 Optionality of choice
RAL7038	玛瑙灰 Agate grey	默认 (Default)
RAL7042	交通灰 A Traffic grey A	可选 (Optional)
RAL7035	浅灰色 Light grey	可选 (Optional)



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	M10 螺栓 bolt	18~22Nm		17mm	
2	接线端子 Connecting terminal	M3	0.5~1Nm		PH2	建议手动安装 Suggest manual installation
3	接线盒盖 Terminal box cover	M4	1.5~2Nm		PH2	建议手动安装 Suggest manual installation

3. 油位计电气接线图 Electrical wiring diagram of oil level gauge



图 2 电气接线图

Figure 2 Electrical Wiring Diagram

油位计安装接线后，应仔细重装接线盒盖，以免密封不好造成雨水渗入表盘腔而影响油位计的正常使用寿命。

After installing the wiring of the oil level gauge, the junction box cover should be carefully reinstalled to avoid poor sealing that may cause rainwater to seep into the dial cavity and affect the normal use of the oil level gauge.