天康集团

YTZ电阻远传压力表

YTZ Series Remote Transmission Pressure Gauge

产品应用 Product Application

电阻远传压力表适用于测量对铜及铜合金不起腐蚀作用的液体、蒸气和气体等介质的压力。同时能把被测压力以电量值传输到远距离的二次仪表，以实现集中检测和远距离控制。并能在现场就地指示，便于工艺检查。

The resistance remote transmission pressure gauge is suitable for measuring the pressure of liquids, vapors, gases, and other mediums that do not corrode copper and copper alloys. It can transmit the measured pressure as an electrical signal to a secondary gauge located at a remote distance, enabling centralized monitoring and long-distance control. Additionally, it allows for on-site indication, facilitating process inspection.

产品原理 Product Principle

本仪表由一个普通弹簧管压力表和一组滑线电阻式发送器等组成。

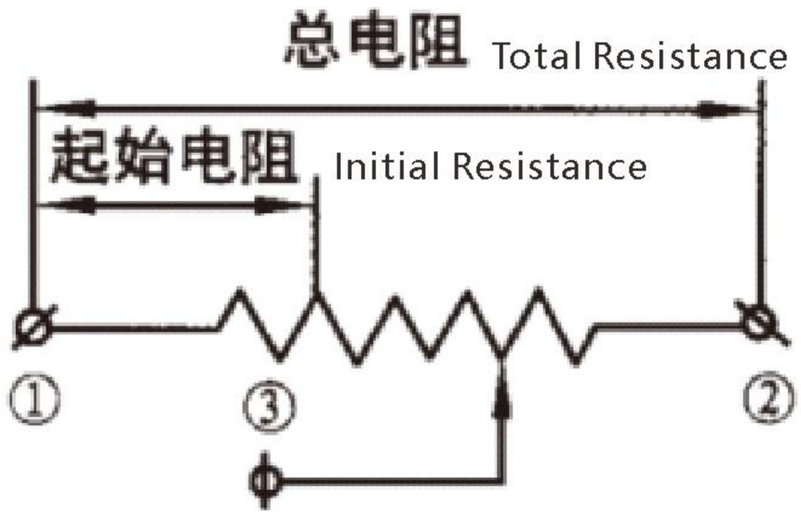
当被测介质的压力变化时， 弹簧管管端产生位移，该位移通过传动机构使指针在度盘上指示相应的压力值。由于滑线电阻式发送器设置在传动机构的扇形齿轮上，当传动机构产生偏转时，即带动滑臂电刷作相应的滑行，使被测压力值的变化转换成电阻的变化而传输到二次仪表上进行显示。

This gauge consists of a common bourdon tube pressure gauge and a set of slidewire resistance senders.
When the pressure of the measured medium changes, the end of the bourdon tube is displaced. This displacement is transmitted through the movement mechanism to make the pointer indicate the corresponding pressure value on the dial. Since the slidewire resistance sender is installed on the sector gear of the movement, when the movement deflects, it drives the corresponding slide of the slidewire brush, converting the change of the measured pressure into a change in resistance which is transmitted to the secondary gauge for display.

技术参数 Main Technical Specifications

发送器起始电阻值：3~20Ω；
发送器满度电阻值：340~400Ω发送器接线端①②外加电压不大于6V；
滑线电阻式发送器接线图

Sender initial resistance value: 3~20Ω.
Sender full scale resistance value: 340~400Ω.
External voltage applied to sender terminals ≤6V.
Slidewire resistance sender connection diagram.



测量范围 Measuring Range

型号 Item No.	测量范围 MPa Measurement Range	精确度等级 Accuracy Grade
YTZ-100 YTZ-150	-0.1~0、-0.1~0.06、-0.1~0.15、-0.1~0.3、-0.1~0.5、-0.1~0.9、-0.1~1.5、-0.1~2.4、-0.1~3.9、-0.1~5.9、0~0.6、0~1、0~1.6、0~2.5、0~4、0~6、0~10、0~16、0~25、0~40、0~60、0~100、0~160、0~250、0~400、0~600、0~1000	1.0，1.6，2.5

使用环境条件：-40~70℃，相对湿度不大于85%，且震动和被测（控）介质的急剧脉动应对仪表正常工作无明显影响。

温度影响：使用温度偏离20±5℃时， 其温度附加误差不大于0.4%/10℃。

Operating Environment Conditions:Temperature range of -40~70°C, relative humidity no greater than 85%, and vibration and abrupt pulsation of the measured (controlled) medium should have no obvious impact on the normal working of the gauge.
Temperature Impact: When the temperature deviates by 20±5°C, the cumulative temperature additional error does not exceed 0.4% per 10°C.

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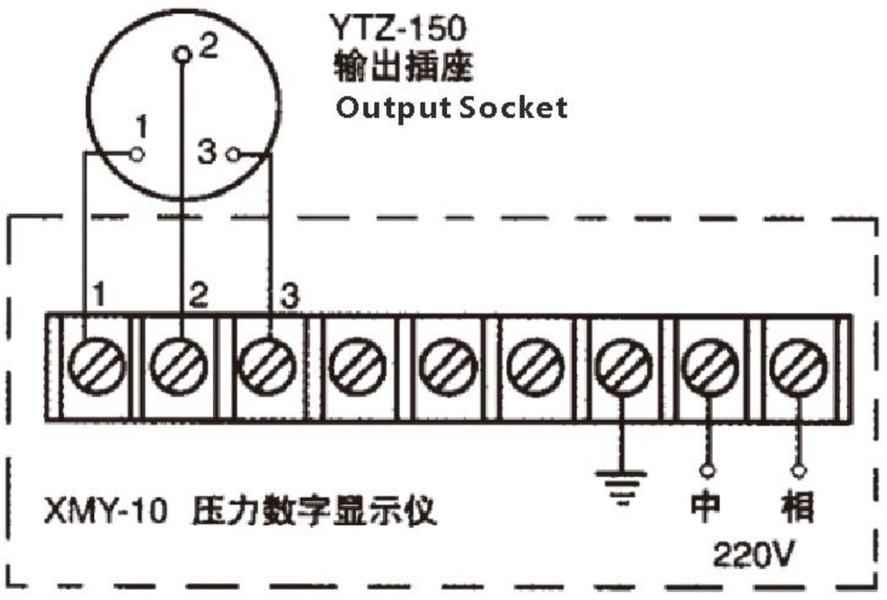
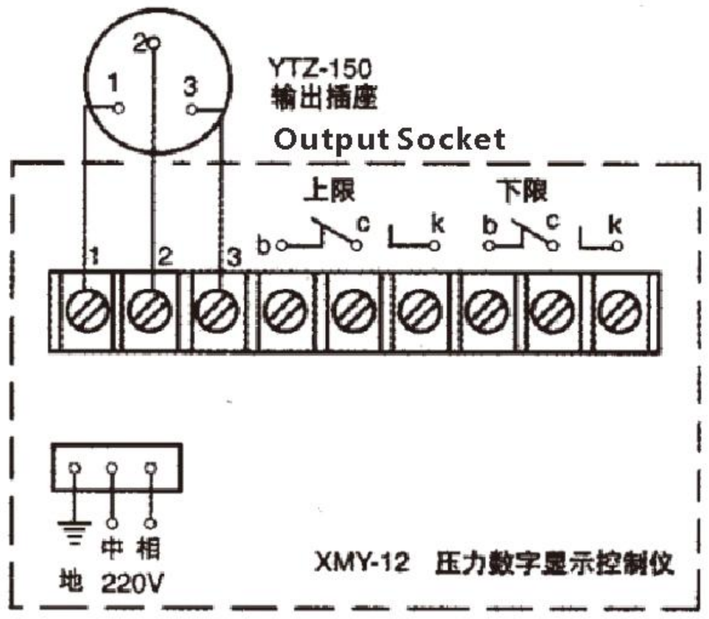
配套接线图 Matching Wiring Diagrams



XMY-10 Digital Pressure Display gauge



XMY-12 Digital Pressure Display & Control gauge

选型指南 Selection Handbook

电阻远传压力表YTZ- **Resistance Remote Pressure Gauge YTZ-**						

壳体+元件材质 Case shell+Component Material

碳钢+铜 Carbon steel+copper	无代码 No code
不锈钢+不锈钢 Stainless steel+stainless steel	B

连接符号
Connection Symbol -

表盘直径 Dial diameter

Φ100	100
Φ150	150

过程连接 Process Connection

M20×1.5	
G1/2	
1/2'NPT	
其他 Others	文字注明 Specify in text

精度等级 Accuracy Class

1.6	
其他 Others	文字注明 Specify in text

附件可选 Available Accessories

无附件 No accessory	无 none
阻尼器 Damping Device	ZN
散热器 Heat Dissipater	SR
过压保护器 Overpressure Protector	OP
冷凝管 Subcooling Pipe	SP
其它 Others	文字说明 Specify in text