天康集团

数显电接点压力表

Digital Electric Contact Pressure Gauge

产品概述 Product Overview

数显电接点压力表是为替代机械式电接点压力表而研发的 数字显示的高精度数显电接点压力表，它基于压力传感器原理，没有机械元件，耐震性能好，抗冲击压力，特别适合替代 机械式电接点压力表是用在一些诸如液压机、注塑机、高压清洗机等有压力冲击或震动强烈的设备配套。

该系列产品还具有一键清零，三种显示单位切换等多种功能。

电路的设计注重稳定性，充分考虑了自动化现场的实际情况，具有强抗干磁干扰、防浪涌保护、防反接保护等。

该产品的外壳和接头全部采用304不锈钢，外形美观，坚固耐用。

The Digital Electric Contact Pressure Gauge is a highly accurate and reliable pressure gauge designed to replace mechanical electric contact pressure gauges. It utilizes pressure sensor technology, eliminating the need for mechanical components and ensuring excellent shock resistance and durability. It is specifically suited for applications with high-pressure impacts or strong vibrations, such as hydraulic presses, injection molding machines, and high-pressure washers.

This series of gauges offers convenient features, including one-key zeroing and the ability to switch between three display units. The circuit design prioritizes stability and takes into consideration the practical requirements of automation environments, providing strong resistance to magnetic interference, surge protection, and reverse connection protection.

The shell and connectors of the gauge are constructed with high-quality 304 stainless steel, resulting in an aesthetically pleasing and robust design.

技术特点 Technical Features

- 304不锈钢表壳及接头，径向安装；
- 四位LED实时显示压力，简单直观；
- 多种单位可切换：MPa，Kgf/cm²，PSI（或kPa，Kgf/cm²，PSI）；
- 60/80/100mm表盘直径，继电器输出，上下限可设，满足不同的客户需求；
- 内设多种功能：延时控制、反向控制、漏压保护、密码保护等；
- 可以根据特种行业的要求，定制专用传感器。
- 304 stainless steel housing and connectors, with radial installation.
- Four-digit LED display for real-time pressure readings, offering simplicity and clarity.
- Multiple units can be switched, including MPa, kgf/cm², and PSI (or kPa, kgf/cm², PSI).
- Available in 60mm, 80mm, and 100mm dial diameters, with relay output and adjustable upper and lower limits to meet different customer requirements.
- Various built-in functions, including delay control, reverse control, pressure leak protection, password protection, and more.
- Customized sensors can be developed according to the specific requirements of different industries.

产品应用 Product Applications

- 设备自动化；
- 工程机械；
- 医疗设备；
- 泵及压缩机；
- 能源及水处理系统；
- 农机设备；
- 测试架；
- 液压及气动系统。

- Equipment Automation.
- Construction Machinery.
- Medical Equipment.
- Pumps and Compressors.
- Energy and Water Treatment Systems.
- Agricultural Machinery.
- Test Rigs.
- Hydraulic and Pneumatic Systems.

技术参数 Main Technical Specifications

量程 Measurement Range	-0.1~0.0.1.1.6.25..60...100.160MPa
过载压力 Overload Pressure	≤10MPa，200%；>10MPa，150%
报警点设置 Alarm Point Setting	1%~99%可设 1%~99% adjustable
报警方式 Alarm Method	双组继电器信号（常开常闭） Dual relay signal (normally open and normally closed)
精度等级 Accuracy Grade	0.5%FS，1%FS(100.160MPa)
长期稳定性 Long-term Stability	优于0.25%FS/年 Better than 0.25%FS/year
负载能力 Load Capacity	220VAC 5A 24VDC 5A
供电电压 Power Supply Voltage	12VDC 24VDC 110VAC 220VAC 380VAC(可选) (optional)
工作温度 Operating Temperature	-20 ~ 80℃
电气保护 Electrical Protection	反极性保护抗电磁干扰 Reverse polarity protection, anti-electromagnetic interference
采样速率 Sampling Rate	5次/秒 5 times/second
测量介质 Measuring Medium	与316不锈钢兼容的气体或液体 Gas or liquid compatible with 316 stainless steel
压力接头 Pressure Interface	M20*1.5 G1/2 G1/4(可定制)(customize)
接头材质 Connector Material	304不锈钢 304 stainless steel
外壳材质 Shell Material	304不锈钢 304 stainless steel

电气连接 Electrical Connection	直出，对插 Direct output, opposite plug
出线定义 Wire Definitions	电源：红蓝公共线：黑上报警：绿下报警：白 Power: Red/Blue, Common: Black, Alarm (Upper): Green, Alarm (Lower): White

选型指南 Selection Handbook

TK E 6M 1 J P4 M20 B2 T3 L

安装方式：E（径向安装），Z（轴向安装）
Installation Method: E (radial), Z (axial)

量程 Measurement Range:
Xk（0-XkPa），Xb（0-Xbar），
XM（0-XMPa）

精度 Accuracy：6（1%），
1（0.5%）*1

输出类型：J（继电器输出）
Output Type:J(Relay Output)

供电电压 Power Supply Voltage：P2(24V)，
P4(220V)，P6(110V)，P5(380V)，P8(12V)

螺纹接口 Threaded Interface：G14(G1/4)，
N14(NPT1/4),Z14(ZG1/4),M20(M20*1.5)，
M9(定制螺纹 Customized Thread)，
G12(G1/2),N12(npt1/2)

出线方式：B2（直出），B4（对插）
Wire Connection:B2 (Direct Output)，
B4 (Opposite Plug)

使用温度：T3（-20~80℃），T9（定制温度）
Operating Temperature：T3（-20~80℃），
T9（定制温度 Customized Temperature）

附加选型：L（显示型）
Additional Option:L (Display Type)

说明 Description：高压及微压量程精度为1%FS High pressure and micro pressure range accuracy is 1%FS