



国家传感器生产基地

Sensor Production Base in China

PT2088 型 压力变送器

PT2088 Pressure Transmitter

说明书

Manual



合肥中亚传感器有限公司

地址：合肥市经济技术开发区芙蓉路268号

邮编：230601

电话：(0551)63634518, 63654518

传真：63661739

Http://www.ZYsensor.cn



HEFEI ZHONGYA SENSOR CO.,LTD.

Address:NO.268 FuRong Road,HeFei
Economic and Technological Development
Zone

Code:230601

Phone: (0551) 63634518, 63654518

Fax: 63661739

E-mail:web@ZYsensor.cn

合肥中亚传感器有限公司
HEFEI ZHONGYA SENSOR CO.,LTD.

目 录

Contents

一、概 述·····	1
1. Outline	
二、技术指标 ·····	2
2. Technical specification	
三、结构尺寸 ·····	2
3. Structure size	
四、安装要求 ·····	3
4. Installation requirements	
五、电气联接 ·····	5
5. Electrical connection	
六、校 验 ·····	5
6. Validation	
七、注意事项 ·····	6
7. Notice	
八、保 修·····	7
8. Service	

PT2088 型 压力变送器

PT2088 Pressure Transmitter

一、概述

PT2088 型压力变送器采用国外高精度防腐敏感组件，将固态集成工艺与隔离膜片技术结合在一起。该产品广泛用于工业自动化过程中的压力测控，并可用于多种腐蚀介质，也能在恶劣环境下工作，且保持优良的性能。



1. Outline

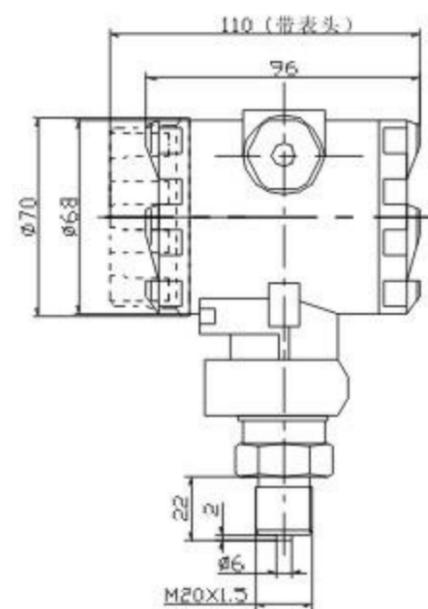
PT2088 pressure transmitter used anti-corrosion sensitive foreign high precision components, integrated solid-state technology and isolated patch technology together. The products are widely used in industrial automation in the process of monitoring the pressure, and used in a variety of corrosive media, but also in bad working environment and maintain good performance.

二、技术指标

量程：0 — 0.2kPa
~100Mpa
0 — -0.2kPa~ -100kPa
补偿温度：-10 ~ 70℃
工作温度：-20 ~ 85℃
准确度：0.1, 0.25, 0.5
电源：24VDC
输出：4 ~ 20mA
重量：约0.8kg

三、结构尺寸

- 材料：不锈钢
- 电子外壳：合金铝(塑料喷涂)
- 压力接口M20 × 1.5

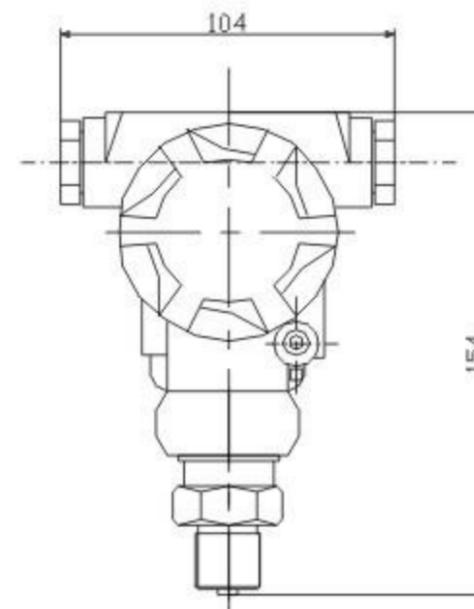


2. Technical specification

Range: 0 — 0.2kPa ~ 100Mpa
0 — -0.2kPa ~ -100kPa
Compensated temperature:
-10 ~ 70℃
Operating temperature: -20 ~ 85℃
Accuracy class: 0.1 0.25 0.5
Power supply: 24VDC
Output: 4 ~ 20mA
Weight: about 0.8kg

3. Structure size

- Material: stainless steel
- E-Shell: Aluminum alloy (plastic coating)
- pressure interface M20 × 1.5



四、安装要求

- 1.安装前请检查标牌上所标型号、量程与使用要求是否一致。
- 2.变送器可以利用本身压力接口直接安装在管道（或容器壁）上，无须安装支架。
- 3.变送器应尽量安装在温度波动小的地方，同时避免强烈振动和冲击。
- 4.为避免测量介质中的杂质沉积堵塞变送器进压孔，影响测量准确度，建议安装变送器时，将进压孔垂直向下或向下倾斜一定的角度。

4. Installation requirements

- 1) Before installing, please check the model, Range on the label are consistent with the requirements.
- 2) Transmitter can use their own interface that installed in the pipe (or vessel wall), do not have to install stents.
- 3) Transmitter should be installed in the small fluctuations in temperature, while avoiding strong vibrations and shocks.
- 4) To avoid impurities jams the pressure port, affecting the measurement accuracy, It is therefore we recommend you install the transmitter, will be vertical down or tilt down a certain angle.

5.量程较小的变送器，随安装角度的不同，可能会产生零点偏差，对此可通过零点纠正，而量程不受影响。

6.在测量高温介质时，请用引压管或其它冷却装置把介质温度降至变送器允许工作温度范围内。

7.露天安装时，请把变送器放置在保护盒内，避免阳光直射和雨淋。

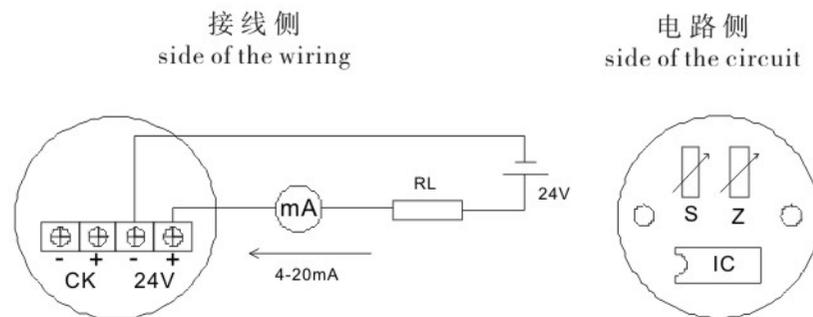
8.现场接线如下图。

5) For a smaller range of transmitter, installation of a different point of view, may have the zero point deviation, can be corrected, measuring span will not be affected.

6) High-temperature measurements in the medium, cited by pressure or other device to cool the temperature down to medium transmitter to allow working temperature range.

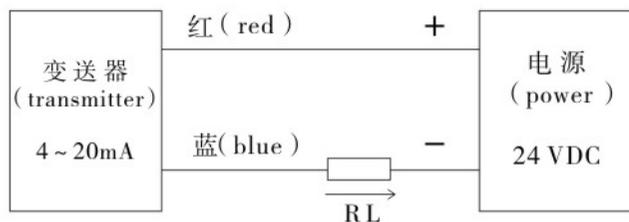
7) In outdoor environments, please keep the transmitter avoiding direct sunlight and rain.

8) On-site wiring diagram is as follows.



五、电气联接

5. Electrical connection



六、校验

1. 变送器出厂前已按规定量程，将准确度调至最佳状态，一般不需要校验。

2. 在下列情况下须重新校验

a. 运输途中出现跌落，强烈震动和碰撞。

b. 放置时间六个月以上。

c. 使用单位例行校验。

6. Validation

1) Transmitter has been adjusted in accordance with the provisions of the best, in general, do not need to check.

2) The following cases, the transmitter need to re-check.

a. Transmitter in the carriage fell, strong vibration or collision.

b. Transmitter at the time more than six months.

c. Transmitter routine check of the use of company.

3. 调整

如果需要调整零点和量程，打开变送器电路侧的盒盖，可见线路板上量程（“S”标志）、零点（“Z”标志）两电位器。

按要求接通电源，在零信号压力下，调“Z”电位器使输出为4.00mA，在满量程信号压力下，调整“S”电位器使输出为20.00mA，直至零点和量程符合准确度要求。调整完毕，拧紧盒盖，确保密封防湿。

七、注意事项

1. 变送器工作温度如超出补偿温度范围，性能可能有所下降。

3) Adjustment

If the need to adjust the zero point or measuring span, please open the transmitter circuit side of the lid, you can see the two potentiometers on the circuit board that measuring span (“S”) and the zero point (“Z”). Required to connect power supply, under the zero signal, adjust “Z”, so that the output of 4.00mA. In the full signal, adjust “S”, so that the output of 20.00mA, till the zero point and measuring span to meet the requirements. After adjustment, tightening the lid, to ensure that seal and Anti-humid.

7. notice

1) Transmitter operating temperature in excess of compensation temperature range, performance may decline.

2.环境温度或测量介质温度骤然剧变时，变送器输出信号如出现跳动，属正常现象，温度平衡后，变送器输出信号也会稳定。

3.非专业人员不要拆开变送器，以免损坏。

4.若变送器出现故障，请返回本公司或在本公司技术人员协助下维修。

八、保 修

1. 本公司产品终身保修。

2. 产品供货之日起一年内免费保修（用户使用不当或者人为损坏不在此列）。

2) Ambient temperature or a sudden drastic changes in temperature measurement, the transmitter output signals such as beating occurred, is a normal phenomenon, the temperature balance, the transmitter will be a stable output signal.

3) Non-professional and technical personnel not to open the transmitter, so as to avoid damaging.

4) If the transmitter failure, go back to the Company, or the technical personnel from the Company maintenance.

8. service

1) The product lifelong maintenance.

2) The product within one year of free maintenance, from the date of shipment (Don't include that users are damaged or improper.)