

aobo

instrument

**2024
PRODUCT
INTRODUCTION**

Pressure Transmitter



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Company Profile

Weifang AOBO Instrument Technology Development Co., Ltd., founded in 2002, with registration capital of 10 million RMB, is a "High-Tech" and "Double-Software Certification" enterprise specialized in "flow measurement and intelligent measurement & control" industry, integrating R&D, production, sales and service.

The company has a core R&D team for computer software and technology, automatic intelligent control, HVAC engineering design and flow measurement. It has the ability to provide customers with specific solutions and complete sets of products according to their different needs, based on years of practical experience. Especially in the heating industry, by the customer's recognition, has a high reputation in the industry.

The products are mainly used in the measurement and control of "steam, liquid, gas, sewage and tap water"; and especially suitable for energy monitoring and energy-saving control in many industries, such as thermal power plants, thermal companies, residential heating, petroleum, chemical industry, papermaking, food, coating, printing & dyeing and HVAC.

Since its foundation, based on self-developed and leading technology, reliable quality, high-quality service and good reputation, our company has been warmly accepted by customers, and become a designated supplier for many central enterprises and listed companies.

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All of the catalogue and company information can be found at:

WWW.AOBOINSTRUMENT.

I. Product Overview

Widely used in air compressors, hydraulic equipment, machine tools, central air conditioning, refrigeration equipment, water treatment works, environmental purification, hydraulic and pneumatic control engineering, automotive, electrical, chemical, pharmaceutical, food and so on. Old-fashioned pressure equipment replacement essential products.



II. Product Characteristics

- Digital smart chip, all-temperature linear temperature compensation;
- Compact structure, compact, cost-effective, multi-connection forms;
- Shock, vibration, stable performance;
- Adopt international advanced technology imported sensors.

III. Technical Parameter

- Output: 4mA ~ 20mA, (1 ~ 5V)
- Power supply: DC 24V (12V ~ 32V)
- Accuracy: $\pm 0.2\%$ $\pm 0.5\%$ $\pm 1\%$
- Media temperature: $-20\text{ }^{\circ}\text{C} \sim 85\text{ }^{\circ}\text{C}$
- Ambient temperature: $-20\text{ }^{\circ}\text{C} \sim 85\text{ }^{\circ}\text{C}$
- Response time: $\leq 200\text{ms}$
- Load: current type $\leq 500\text{ }\Omega$ (DC 24V power supply)
- Repeatability: $\pm 0.2\%$ F · S
- Long term stability: $\pm 0.5\%$ F · S / Y 10. Non-linear: $\pm 0.2\%$ F · S
- Temperature compensation range: $0\text{ }^{\circ}\text{C} \sim 60\text{ }^{\circ}\text{C}$
- Overload pressure: 2 times the range
- Process connection: M20 × 1.5 or 1/4NPT or G1/4 or non-standard (According to user needs processing)

- Measuring media: oil, water, gas and other media compatible with 316 stainless steel.
- Protection: IP65 pressure transmitter.

IV. Installation Requirement

4.1 Pre-installation Inspection

(1)The test pressure must not exceed the upper limit of the measurement range of the transmitter.

(2)With the measured medium is adapted to the structural material of the transmitter , does not corrode .

(3)Whether the measured medium temperature exceeds the operating temperature range of the transmitter .

4.2 Installation

(1)Pressure transmitter is mounted vertically, can be installed directly on the pipeline pressure test port.

(2)Directly into liquid level transmitter can be used , attention fixed firmly to the wire , moving water installation should take hydrostatic devices.

(3)Junction box or the wire connections to take anti-rain treatment .

(4)The junction box should be grounded.

Note: The transmitter housing with junction box mounting hole size is M6 × 1, 32m pitch.

4.3 Pressure Transmitter Installation Precautions

(1)Pressure transmitter pressure interface , the force must be exerted on the lower part of the six-party transmitter , can not be directly screwed the top of the electron shell , so broken inside the transmitter leads.

(2)If there is no standard pressure source user,do not self-adjusting zero and span potentiometers.

(3)If the transient overvoltage or frequent shocks (such as water hammer , etc.) in the

presence of the pipe or vessel buffer device should be installed to prevent damage to the sensor diaphragm.

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