

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:

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I. Product Overview

The YBY series pressure transmitter adopts high-precision sensitive components and smart chips to convert the pressure of various liquids, gases, steam and other measured mediums into 4-20mA standard signal output. It can be matched with a variety of instruments and has a small size. It has the advantages of lightweight, convenient installation and maintenance, high sensitivity, low failure rate, earthquake resistance and impact resistance, good repeatability and long service life. It is widely used in thermal power, petroleum, chemical, water supply, power stations, boilers, light industry and other fields flammable and explosive atmospheres, explosion-proof products can be provided. Explosion-proof grade: ExiaIICT6Ga, protection grade: IP65.



II. Product Characteristics

- (1) High work reliability and stable performance;
- (2) Special integrated circuit, few peripheral devices, high reliability;
- (3) High-precision sensitive elements, high measurement accuracy;
- (4) Simple maintenance, small volume, light weight and easy installation and debugging;
- (5) Aluminum alloy die-cast shell, three-end isolation, electrostatic spray-paint protection layer, solid and durable;
- (6) (4-20) mA DC second-line signal transmission, with strong anti-interference capability and long transmission distance.

III. Performance Parameter(s)

Range	(1.0 1.6 2.5 4.0 6.0) MPa (Other ranges can be customised)
Precision	0.2%、0.5%
Medium temperature	(-30-400) °C (no freezing)

Power supply	(18-24) V DC
Output signal	(4-20) mA
Ambient condition	(-20-60)°C, humidity (0-95)%RH (without dew), atmospheric pressure (86-106Kpa), intrinsic safety explosion-proof type (-20-40°C)
Overload	1.5 times rated pressure
Explosion-proof grade	Exiall CT6 Ga
Shell protection grade	IP65

IV. Product Type Selection

Pressure Transmitter Specification Model

ABTD - YBY		-	a	b	c	d		
Model	YBY						Pressure Transmitter	
a	Probe type	1						Diffused silicon
		2						Silicon sapphire
b	Instrument type	P						Normal type
		B						Explosion- proof type
		Z						Smart type
c	Interface type	M						M20*1.5 thread
		F						Flange
d	Range		01					1KPa
			02					100KPa
			03					1.0MPa
			04					1.6MPa
			05					2.5MPa
			06					4.0MPa
			07					6.0MPa

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