



instrument

**2024
PRODUCT
INTRODUCTION**

Wireless Remote 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

This integrated pressure transmitter belongs to the supporting product of the wireless monitoring system for fluid pressure monitoring. It is suitable for the pressure monitoring of the production, storage and transportation process of oil and water wells, the monitoring of water supply network, the telemetry of water conservancy and hydropower, the pressure detection of gas pipelines, the liquid level detection of rivers, lakes and seas, etc. Using micro power wireless communication mode, no wiring, installation is faster, safe and convenient. The standard pressure measurement signal can be easily connected to the measurement and control system through wireless network transmission, which has a wide range of applications. Directly send data to the designated IP server. Support private server and public server. OPC reading data is supported.



II. Product Features

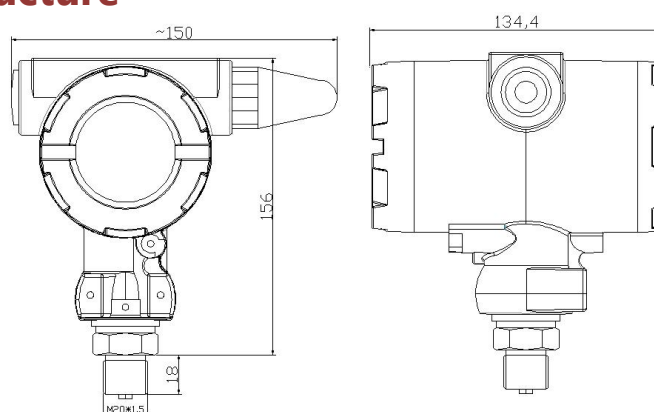
- (1) Wireless testing of pipeline pressure, typically used in wellhead pressure monitoring.
- (2) 2G, 3G, 4G, NB network communication, using UDP/TCP/IP protocol transmission.
- (3) LCD display: $(-30 \sim 75)^{\circ}\text{C}$ wide temperature working range, display pressure data, battery voltage, wireless channel and other information.
- (4) The installation direction is adjustable: the valve is connected to the field pipeline through the union or adapter, and the direction can be adjusted.
- (5) 38AH high energy lithium sub battery, super long working life;
- (6) Automatic power control, high power when sending data, low power when standby. It has active data alarm function.
- (7) Support mobile APP to query data. Support OPC configuration software to read data.

III. Product Technical Parameters

- (1) Measured medium: liquid, gas

- (2)Pressure range: (0~60)MPa, customizable
- (3)Accuracy:0.5%
- (4)Overload pressure: 150% F.S
- (5)Reporting cycle: 1 minute to 12 hours(Settable)
- (6)Number of decimal places: 0~3(Settable)
- (7)Signal transmission:2G,3G,4G,NB network. UDP, TCPIP protocol
- (8)Transmitting power: $\leq 750\text{mW}$
- (9)Working power supply: 3.6V lithium battery
- (10)Process interface: M20 * 1.5/npt1/2 external thread
- (11)Explosion proof grade: Exia IIC T6 Ga
- (12)Enclosure protection: IP66
- (13)Working environment temperature: (-40~75)°C
- (14)Working environment humidity: $\leq 97\% \text{ RH}$
- (15)Product weight: 2000g
- (16)Shell material: aluminum alloy
- (17)Pressure connection: 316L stainless steel.
- (18)Communication distance: determined by base station

IV. Exterior Structure

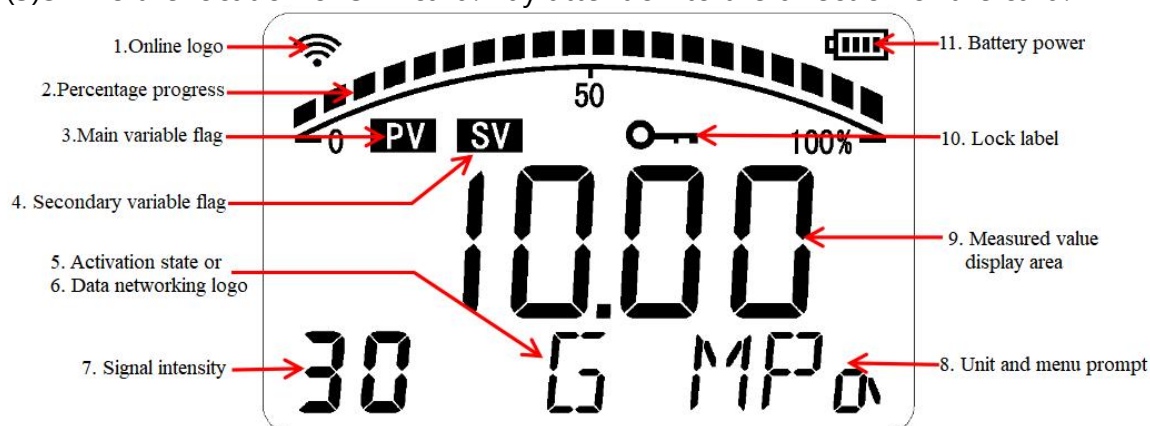


V. Display Description

Display front panel of wireless integrated pressure transmitter, such as:



- (1) I / O is the IO port connected with the computer
- (2) The alarm light is built-in alarm mode and communication indicator light.
- (3) Press key ZERO, S1, S2 are reset, shift and add key
- (4) Off / on is the power switch of the whole machine.
- (5) SIM is the location of SIM card. Pay attention to the direction of the card.



Online logo: the communication between the instrument and the server is successful. This flag indicates that the instrument is online. Activation status or data networking flag: if the instrument is not activated, n will be displayed; if it is activated but GPRS is not attached, it will not be displayed; if GPRS is attached successfully, G will be displayed.

VI. Installation Method

- (1) The measurement range required by the process is consistent with the range of the transmitter to be installed.

(2)The thread specification of process installation connector must match with transmitter.

(3)When installing the pressure transmitter, first close the valve (needle valve or gate valve) on the pipeline to install the pressure transmitter. Then there are two installation methods: First screw the transmitter directly into the upper port of the valve; Second, Screw the union or adapter into the upper port of the valve, and then screw the transmitter into the upper port of the union or adapter. In this way, the direction can be adjusted by adding union or adapter. After the installation, open the needle valve to confirm that there is no leakage, that is, the installation is qualified.

VII. Special Instructions

The transmitter needs to be installed with SIM card, and 2G, 3G, 4G, NB-IOT network is selected according to the supply situation, generally 2-G card. If you are a VPN user, please consult the local operator about the password and login information of the network settings.

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