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Handbook

ABDT-YBY Wireless Remote Pressure Transmitter

Weifang AOBO Instrument Technology Development Co.,Ltd

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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/tcpip protocol transmission.

(3)LCD display: (-30~75)℃ 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: ⩽ 750mW

(9)Working power supply: 3.6V lithium battery

(10)Process interface: M20 * 1.5/npt1/2 external thread

(11)Explosion proof grade: Exib IIC T4 Gb

(12)Enclosure protection: IP66

(13)Working environment temperature: (-40~75)℃

(14)Working environment humidity: ⩽ 97% RH

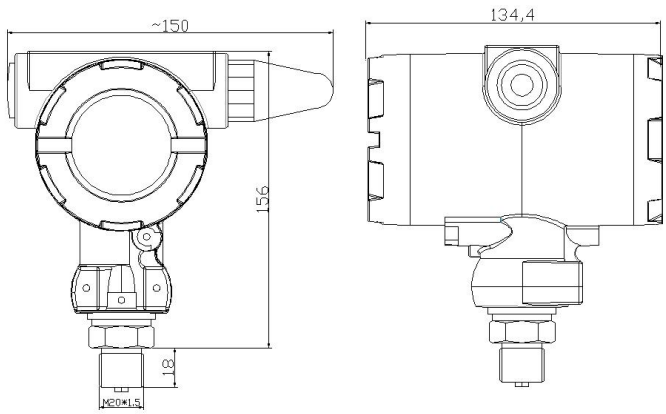
(15)Product weight: 2000g

(16)Shell material: aluminum alloy

(17)Pressure connection: 316L stainless steel.

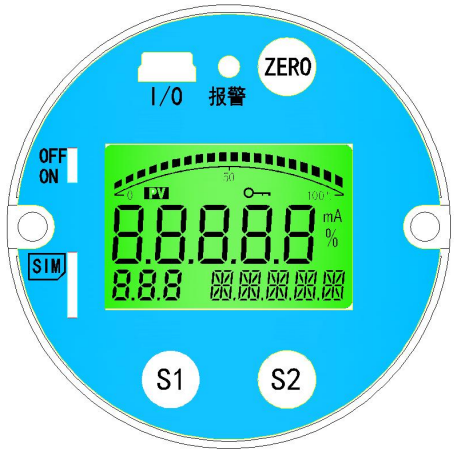
(18)Communication distance: determined by base station

IV. Exterior Structure



V. Display Description

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



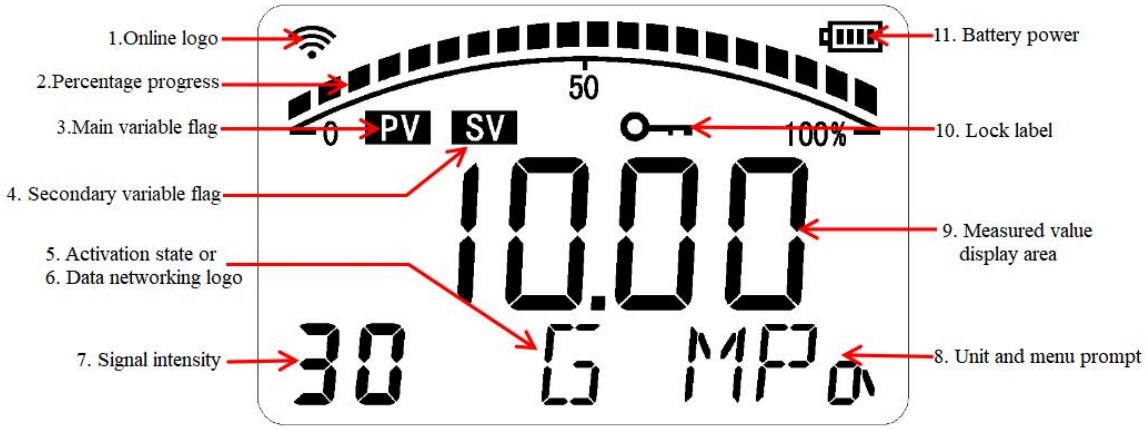
(1)I / O is the IO port connected with the computer

(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.

Contact

AOBO Instrument Technology Development Co.,Ltd

No. 8009 Minzhu St.-Weifang,Shandong Province

261100,China

Mob.: +86 19953631088/+8619953631096

Email: aobometer@gmail.com

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

WWW.AOBOINSTRUMENT.COM