



**2024
PRODUCT
INTRODUCTION**

Digtal Pressure Gauge

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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

ABDT-YBY-118T pressure gauge integrates high sensitivity pressure, high precision signal conditioning circuit, low power battery power management, and rich LCD display interface, strong anti-interference characteristics, it is an ideal intelligent instrument for pressure collection transmission and display.



Suitable for oilfield, water conservancy, metallurgy, tap water and other industries.

Main feature:

- Using the latest microprocessor technology, battery-powered, ultra-low power operation, battery life of 2-5 years.
- The temperature characteristics of the whole machine are very good, and the working temperature range is -30-70 degrees.
- Explosion-proof design: explosion-proof aluminum shell, the circuit board system is intrinsically safe.
- Protection level: ip66, fully sealed and waterproof design.
- Rich LCD display interface with power prompt and dynamic percentage display.
- The main screen has 5-bit real-time pressure display.
- The secondary screen can display the time, date, number of data, etc.
- The graphical pressure percentage is displayed with the battery level.
- White backlight for easy night viewing.
- A variety of pressure unit conversion, internationally accepted.
- The acquisition rate is 16 seconds/time to 4 times/second, which is more suitable for application.
- With data storage function, 260000 pieces of data can be recorded.

II. Technical Parameters

Measured medium: liquid, gas

Pressure range: -0.1~100MPa Customizable

Accuracy: $\pm 0.05\%FS$ (up to 70MPa), $\pm 0.1\%FS$, $\pm 0.2\%FS$, $\pm 0.5\%FS$

Display mode: 5-digit LCD display

Display resolution: $\pm 0.0001\%fs$

Standby current: ≤ 5 micro-amperes

Working power: 3.6v lithium battery

Shell protection: IP66

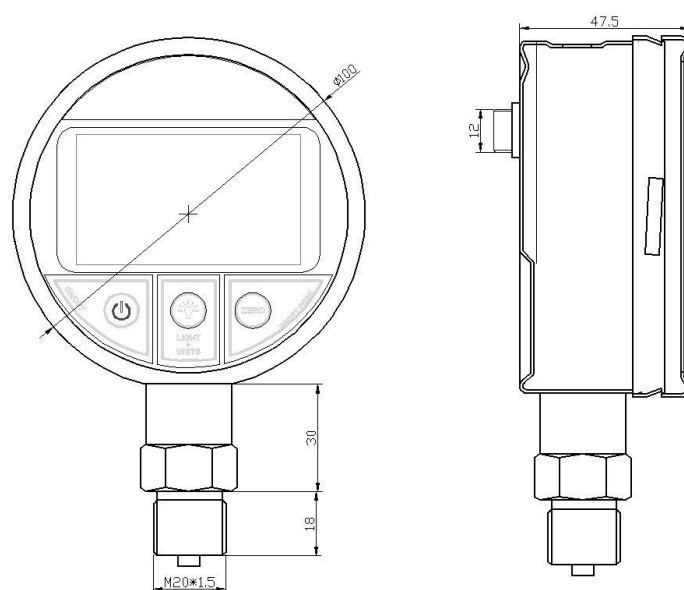
Medium temperature: $-20\sim 70^{\circ}C$

Working environment temperature: $-20\sim 70^{\circ}C$

Working environment humidity: $\leq 80\%RH$

Product weight: 800g

III. Shape Parameter



IV. Installation Method

1. Determine the measurement range required by the process and the range of the transmitter to be installed.
2. The joint thread size of the process installation must be matched with the transmitter.
3. Install the pressure transmitter on the pipeline. Firstly, close the valve (needle valve or gate valve) on the pipeline to be installed with the pressure transmitter. Then there are 2

installation methods: (1) Screw the transmitter directly into the valve. (2) 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. This installation method adjusts the direction by adding a joint or adapter. After installation, open the needle valve to confirm that there is no leakage, that is, the installation is qualified.

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