



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:

WWW.AOBOINSTRUMENT.COM

I. Product Overview

Digital pressure gauge is full electronic-structure and battery-powered, which make it very easy for on-site installation. Specifically, a high-precision piezo-resistive pressure sensor is used and the output signal is processed by the high-precision, low temperature drifting amplifier, then sent into the high-precision A/D converter to be converted into digital signal, after being computed and processed, the actual pressure value is showed on the LCD screen.



It has benefits: flexible use, simple operation, easy debugging, safe, reliable etc. It is being widely used to measure and display the pressure of the medium in hydro-power, water, petroleum, chemical, mechanical, hydraulic and other industries.

II. Features

- ◆ Size 100mm, stainless steel case
- ◆ Large-screen LCD display, high resolution, back light, easy to read
- ◆ Automatically record the maximum pressure values during the measurement
- ◆ Pressure on the percentage of dynamic display, (the progress bar display)
- ◆ 10 engineering units: psi, bar, KPa, MPa, Kgf(kgf / cm²), MMH(mmH₂O), MH2(mH₂O),
- ◆ 0 ~ 15min auto-shut off feature.
- ◆ Micro-power consumption, over 2 years in power-saving mode, continuous work 2,000 hours
- ◆ Parameter correction, correct zero and error in field application.
- ◆ Pressure range already setted before use
- ◆ Sampling rate: 4 times / sec
- ◆ Applicable to gases and liquids compatible with stainless steel

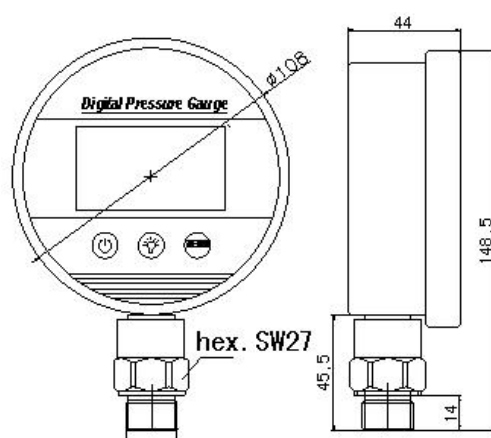
III. Technical Parameters

Pressure range	0-100MPa	Accuracy	0.50%,0.20%
Overload capacity	200%	Pressure type	Gauge pressure
Stability	≤0.1% /year	Battery voltage	3.6VDC
Display	LCD	Display range	-19999~99999
Ambient temperature	-20℃~70℃	Relative humidity	≤80%
Mounting thread	M20*1.5, G1/2,G1/4	Interface Material	Stainless Steel

IV. Installation

It can be directly mounted in the hydraulic pipe on the road through the mounting thread. In critical applications (such as severe vibration or shock), soft hose is recommended to connect the digital pressure gauge to reduce the effect caused by the sever vibrations and shocks.

V. Dimension



VII. User Notes

1. Stored and used in the temperature of $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$ and the relative humidity less than 80%.
2. Should be concentric and parallel when connect digital pressure gauge and pressure system.
3. Please use 9V alkaline battery(6LR61) when replace the battery.

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