

1 Overview

The digital pressure gauge uses a high-precision diffused silicon pressure sensor, and the circuit part uses a 24-bit dedicated AD processing chip and an industrial-grade MCU, which is suitable for real-time monitoring of a variety of sites.

The operating instructions contain important information and safe operation requirements for the digital pressure gauge.

The digital pressure gauge must be used within its scope of application and comply with relevant accident prevention regulations and general safety regulations.

Before using the pressure gauge, the operator must carefully read and understand the operating instructions.

The manufacturer is not responsible for any damage caused by using products that are not consistent with the intended use, not complying with the operating instructions, assigning unqualified technicians or unauthorized repairs to the digital pressure gauge.

This product implements the standard: JB/T7392-2006 "Digital Pressure Gauge"

Logo Description:



WARNING!

Indicates a potentially hazardous situation which, if not avoided, could result in serious damage or injury.



ATTENTION!

Indicates a potentially hazardous situation which, if not avoided, could result in minor injury, property damage, or environmental harm.



INFORMATION!

Gives helpful tips, suggestions, and information for efficient and trouble-free operation.

2. Technical Parameters

Measuring range: -0.1~100MPa

Overload: 2 times full scale (or 110MPa)

Accuracy: $\pm 0.2\%FS$, $\pm 0.5\%FS$

Display: Large screen LCD with backlight

Resolution: 4 1/2 digits

Menu function: zero point reset, peak value display, unit switching, pressure progress bar display, power display.

Compensation temperature: 0~50°C

Ambient temperature: -10~60°C

Medium temperature: -20~80°C

Storage temperature: -20~60°C

Power supply: 1x9V battery

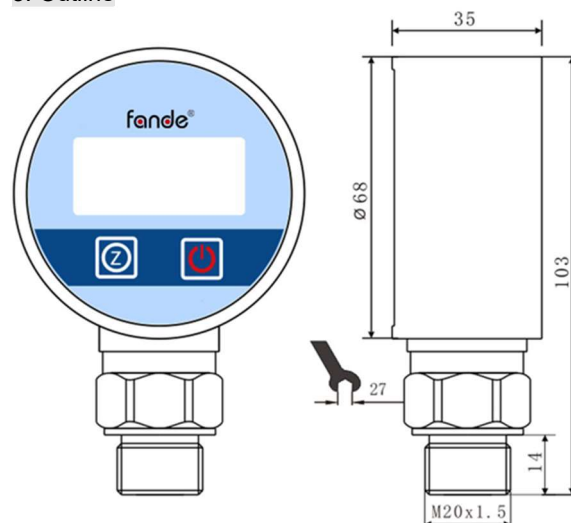
Casing material: stainless steel 304 (casing/pressure connector)

Diaphragm material: stainless steel 316L

Seal ring material: fluororubber

Casing protection: IP54

3. Outline



4. Functions and Operations

4.1. Measurement status:

◆Power on and off: short press the "ON/OFF" button

◆Unit switching: long press "ON/OFF" button

◆Peak value zeroing: short press the "ZERO" button

◆Display zeroing: long press the "ZERO" button

(Note: This function can only be used in a non-pressure state)

4.2. Setting status:

◆"ZERO" button: Short press to modify the current flashing digit value or scroll down the menu, long press to move the flashing digit position

◆"ON/OFF" button: short press allows to modify the current parameter value (the highest digit of the value flashes) or confirm the current modified parameter value (the value stops flashing), long press is invalid

4.3. Parameter setting:

◆"Locd": password input menu, enter password "1000"

◆"off": automatic shutdown time menu, setting range "00~15" minutes, "00" for continuous operation

◆"bcl": backlight on time menu, setting range "00~15" minutes, "00" for turning off the backlight

◆"End-": exit the menu, set value "0~1" "0" means exit without saving the setting parameters, "1" means exit by saving the setting parameters

4.4. Setting method:

① Press "ZERO" and "ON/OFF" at the same time, when the sub-screen displays "LOCK", enter "1000", press "ON/OFF" to confirm, and enter the parameter setting state

② Short press "ZERO" to select the menu to be modified

③ Short press the "ON/OFF" key to allow parameter modification

④ Short press the "ON/OFF" key to confirm the modification

⑤ Short press "ZERO" to select the "End-" menu

5. Installation

Please select a suitable sealing method before installing the digital pressure gauge.

Ensure that the measuring medium is compatible with the instrument material.



Attention!

▶ Do not touch the sensor diaphragm inside the pressure-inducing hole in any way.

▶ Do not use the instrument housing as a torque to rotate the instrument.

6. Transportation, packaging and storage

6.1 Transportation

Check whether the digital pressure gauge is damaged during transportation. If there is obvious damage, report it to the manufacturer immediately.

6.2 Packaging

Do not remove the packaging before installation.

6.3 Storage

Permitted conditions of the storage location:

■ Storage temperature: -20...+60°C

■ Humidity: <85% relative humidity (non-condensing)

Avoid contact with the following factors:

Direct sunlight or near hot objects;

Mechanical vibration, mechanical shock (dropping with force);

Smoke, steam, dust and corrosive gases;

Potentially explosive atmosphere, flammable atmosphere.



Warning!

Before storing the digital pressure gauge (after operation), remove all residual media. If the media is harmful to health, such as corrosive, toxic, harmful, radioactive, etc.

7. Maintenance and Repair

7.1 Maintenance



Attention!

Turn off the power supply of the pressure gauge before replacing the battery.

Battery replacement can be carried out by the customer.

Battery: 1 x 9V battery



Information!

The service life of the instrument battery is related to the battery capacity and the working mode of the instrument. Refer to Article 2 of this manual.

The digital pressure gauge is maintenance-free when it works normally.

Repairs can only be carried out by the manufacturer.

7.2 Recalibration

The pressure gauge has a calibration function, please contact us.

8. Disassembly, Repair and Disposal



Warning!

Residual media in the disassembly digital pressure gauge can be dangerous to people, the environment and equipment, take adequate precautions.

8.1 Disassembly

Testing and calibration can only be disconnected after the system is depressurized.

8.2 Return for repair



Warning!

The digital pressure gauge is strictly observed when leaving the factory:

Products returned to the manufacturer must not contain any hazardous substances (acids, alkalis, solutions, etc.).

When returning the digital pressure gauge, please use the original packaging or a suitable transport packaging.

8.3 Disposal

Improper handling can put the environment at risk.

Dispose of instrument parts and packaging materials in an environmentally compatible manner in accordance with the waste disposal regulations of the specific country.