

1. Overview

The digital pressure gauge DR3730 uses a pressure sensitive element, and the circuit part uses a 24-bit AD processing chip and industrial-grade MCU, which is suitable for real-time monitoring or measurement arrangement of on-site pressure.

This manual contains important information and safe operating requirements for this digital pressure gauge.

This digital pressure gauge is used within its applicable scope and complies 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 does not accept any liability for any damage caused by using a product not suitable for its intended use, failure to follow the operating instructions, appointing unqualified technicians or unauthorized personnel to repair the digital pressure gauge.

Standard: JB / T 7392-2006 DIGITAL PRESSURE GAUGE.

Sign Description:



Warning!

Indicates a potential hazard, if not avoided, could result in serious loss or injury.



Caution!

Indicates a potential hazard, if not avoided, could result in minor injury, property damage, or environmental hazards.



Information!

Useful tips, suggestions and information are provided for efficient and fault free operations.

2. Technical Parameter

Measuring range: 0...1~250MPa

Overpressure: 2XFS

Accuracy: $\pm 1\%$ FS

Display: LCD with backlight

Resolution: 4 digits

Menu functions: zero clearing, maximum / minimum value display, unit switching, pressure bar display, battery level display.

Compensation temperature: 0~50°C

Ambient temperature: -10~60°C

Medium temperature: -20~80°C

Storage temperature: -20~60°C

Power supply: 3 x AAA batteries (4.5 V)

Current consumption: < 4.5mA (backlight is not turned on)

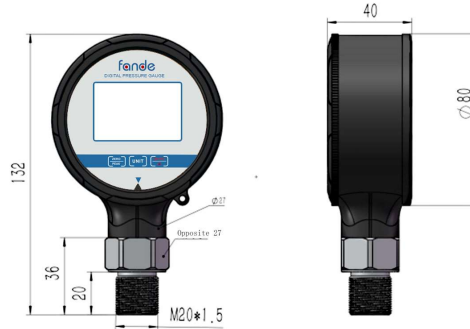
Shell material: ABS

Pressure sensitive film material: stainless steel 17-4PH

Seal ring material: NBR

Enclosure protection: IP65

3. Outline



4. Function and Operation

4.1 Zero Clearing



Long press: use the current pressure as the measurement zero point.



Information!

- ▶ The clearing range is within 5% of the full scale;
- ▶ When there is a deviation in the display zero point, use the zero clearing function;
- ▶ It is recommended to use the Zero clearing function before each use.

4.2 Peak View, Clear



Short press: display the maximum value;
Long press: clears the maximum value.

4.3 Unit Switching (psi, kPa, MPa, bar, kgf/cm²)



Short press: cycle between pressure units.



Information!

After unit switching, the measured value will display the current equivalent pressure.

4.4 ON/OFF



Short press: turn on backlight, long press: turn on / off.

5. Installation

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

Ensure that the measuring medium is suitable for the instrument material.



Caution!

- ▶ Do not touch the sensitive element diaphragm in any way.
- ▶ Do not install the instrument by rotating the instrument housing.

6. Transportation, Packaging and Storage

6.1 Transportation

Check whether the pressure gauge is damaged. If it is damaged, report to the dealer immediately.

6.2 Packaging

Do not remove the packaging before installation.

6.3 Storage

Allowed conditions of storage place:

■ Storage temperature: -20~+60°C

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

Avoid the following:

- Direct sunlight or near hot objects;
- Mechanical vibration, mechanical impact;
- Smoke, steam, dust and corrosive gases;
- Potential explosive and flammable environment.



Warning!

Before storing the digital pressure gauge, Remove all remaining media. Some media are harmful to health, such as corrosive, toxic, harmful, radioactive, etc.

7. Maintenance and Repair

7.1 Maintenance



Caution!

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

Battery replacement can be carried out by the customer.

Battery model: 3X AAA alkaline batteries (4.5V)



Information!

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

The digital pressure gauge is maintenance free in normal operation. Repairs can only be carried out by the manufacturer.

7.2 Recalibration

The pressure gauge can be calibrated. If you need to calibrate, please contact us.

7.3 Fault Code and Handling Method

Er-H: If it exceeds the upper range, please check whether the measuring range of the pressure gauge is appropriate;

Er-S: If the pressure sensitive element fails, return it to the manufacturer for maintenance;

Er-D: Data loss, return to the manufacturer or customer for calibration;

Er-Z: If Zero clearing fails, please refer to Article 4.1 of this manual.

8. Disassembly, Repair and Disposal



Warning!

The residual medium in the digital pressure gauge will cause danger to people, environment and equipment, and take adequate precautionary measures.

8.1 Disassembly

Disconnect the test and calibration only after the system has no pressure.

8.2 Repair



Warning!

When the digital pressure gauge returns to the factory:
The product must be free of any harmful substances (acid, alkali, solution, etc.).

When returning to the digital pressure gauge, Use the original packaging materials or select the appropriate packaging materials.

8.3 Disposal

Improper treatment will cause environmental pollution.
Dispose of instrument components and packaging materials in an environmentally compatible manner, in accordance with national waste disposal regulations.

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