

DR-S211

HIGH PRECISION PRESSURE GAUGE

— MANUAL

I: NOTICE

1. Please check the packaging and appearance after you received the product.
2. Please check the mode and specification of the product. Keep correct electrical connection and mounting method.
3. Power: three pieces of AA battery or USB-power.
4. During using, please notice the technical and operation conditions: the temperature of medium, burst pressure, power supply.
5. This product is a precision device, DO NOT use hard objects to touch the diaphragm or disassemble.
6. During installation, do not install or disassemble strongly, especially the installation of thread.
7. Please install or disassemble with a suitable wrench, Otherwise, the damage is not in the scope of warranty.
8. After starting the gauge, it is a normal phenomenon to take a few minutes to keep it stable and work normally.
9. If the product is out of order, please contact our after-sale technical staff.
10. During installation, the gauge will be affected by installation stress. After installation, please zero clearing.

(!)The product damage caused by non-professional operation according to the operation regulation is not the scope by the warranty.

II: WARNING

1. This product is a precision instrument, it should be regularly calibrated or submitted to ensure the accuracy of the product.
2. Product storage should be moisture and dust, as far as possible in the dry and normal temperature environment.
3. The company does not undertake any direct or indirect loss other than the product itself.
4. The company reserves the right to change the specifications of the product without notice.

III: DESCRIPTION

DR-S211 high-precision digital pressure gauge is a 330°rotating high-precision pressure gauge, which adopts the main screen and Split-screen display on the secondary screen, displaying real-time pressure simultaneously on the main screen, When the split screen displays the ambient temperature, maximum pressure, pressure minimum value, measuring range and other reference data.

The product has powerful functions and can switch a variety of common pressures unit display, pressure collection rate is adjustable, and collection can be recorded collect data and export records via USB data cable.

This product comes standard with USB power supply, optional 3 AAA batteries or rechargeable battery powered, multiple power supply modes, use more convenient.

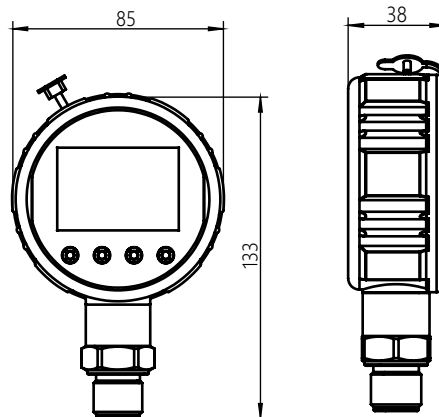
- ☆ Main screen and secondary screen dual-screen display, the main screen displays real-time pressure; the secondary screen displays current temperature/maximum value/minimum value/pressure range
- ☆ Multiple power supply methods: standard USB power supply, optional 3 AAA batteries or rechargeable batteries
- ☆ Original imported pressure sensor, accuracy 0.05%, 0.1%0.5% optional
- ☆ 12 pressure units switchable:
MPa/kPa/psi/bar/kgf/cm2/mbar/mH2O/Torr/inHg/inH2O/ATM/inWC
- ☆ The dial can be rotated 330 degrees

IV: SPECIFICATION

Pressure range: - 0 . 1MPa ... 0~1 ... 1040 ... 100MPa (for specific range, see the label on the device)
Overload pressure: 150%(>10MPa) ; 200%(≤10MPa)
Backlight color: blue backlight
Dial size: 85mm
Accuracy grade: 0.05%, 0.1%, 0.5% (for the specific range, see the marking on the equipment label)
Long-term stability: better than 0.05% FS/year
Working temperature: - 5 ~ 40°C
Electrical protection: anti-electromagnetic interference design
Sampling frequency: 1 ~ 10 times/second
Measuring medium: gas or liquid compatible with 316 stainless steel
Connection: M20*1. 5 G1/4 or customized thread
Connection material: 304 stainless steel
Rotation angle: 330° degree
Product function: power on/off backlight reset unit switching extreme value, temperature display
Power supply voltage: 3 AAA/rechargeable batteries or USB powered
Shell material: cast zinc
Long-term stability: better than 0.05% FS/year
Protection class: IP65 (IP67 optional)

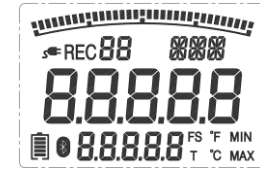
V: DIMENSION

UNIT: mm



VI: BUTTON FUNCTION

6.1. LCD screen and code description:



Code	Description
	Pressure percentage bar
	Power supply
REC88	The number of data recorded
	Pressure unit
88888	Main Screen: Current Pressure Value
	Battery power
FS	Pressure range
88888	Secondary screen: current temperature/ extreme values
T	Temperature sign
°F	Temperature: Fahrenheit
°C	Temperature: Celsius
MIN	Pressure minimum
MAX	Maximum pressure

Note: The above codes are not all open to customers due to product design requirements.

6.1. Key and function description:

Button	Name	Button & function description
	Power	Short press to turn on, long press to turn off; when turned on, short press to turn on the backlight.
SET	Setting	Long press to turn on the recording function, long press again to save the data and exit
MIN/MAX	Max/min	Short press to display the maximum value, minimum value and temperature value in sequence
MEUN/ZERO	Menu/clear	Short press to clear, long press to enter system settings

VII: POWER SUPPLY

This product can be powered in two modes, battery or USB.

Battery power	Powered by 3 AAA batteries or a rechargeable battery pack. When the battery indicator alarms, the batteries need to be replaced/charged in time.
USB power supply	Adopts type-c power supply, and the power supply is 5V * This product comes with a standard power cord (5V, 0.15A) * The product is equipped with power management, plug into the type-c port without removing the battery.

For battery replacement:

First remove the protective cover, there are 3 screws on the back cover, after removing it, open the back cover, you can see the battery, just replace it.

VIII: FUNCTION DESCRIPTION

8.1 Change device parameters

Press and hold the MENU/ZERO key, and P0 will appear. At this time, press this key continuously, and the following table code will appear; short press the MIN/MAX key to set the function parameters; short press the SET key to save the settings and return to the main page of pressure display :

Code	Function	Description
P0	Automatic power on and off	This is off by default. After the function is turned on, the device will automatically shut down if there is no key operation for 5 minutes.
BLE	Bluetooth function	This function is used for debugging.
RATE	Acquisition rate	The default is 0.3 seconds, which can be changed from 0.1 to 10 seconds.
UNIT	Pressure unit	Various pressure units are optional
FLTR	Filter coefficient	Default 5, can be changed to 1 ~ 7 seconds
DEL	Clear Storage	Click the SET button to clear all recorded data

8.2 Change device time

The device needs to adjust the time in order to have an accurate recording time. The specific operation is as follows: long press the MIN/MAX button, short press the MIN/MAX button again, and set the year. At this time, press the MENU/ZERO button continuously, and it will appear month, day, hour, minute, second respectively; Short press the MIN/MAX key to change the value; short press the SET key to save the value and exit.

8.3 Record data export

Export through the standard data cable: There is a USB port on the device, connect it to the computer through the data cable, a folder will appear on the computer, and the recorded data will be stored in it.

IX: AFTER-SALES SERVICE

1. The product warranty period is 12 months from the date of delivery. During the 12 months, free warranty for an artificial fault. Out of warranty, we still provide technical services.
2. The main parts of product: pressure-sensitive components, shell and screen buttons. Normally worn of shell is out of warranty and replacement. Diaphragm damaged (over pressure or hard material touching) is out of the warranty.
3. The followed situations are out of warranty service:
 - 1) All human factors: failure to use the instructions, damage in abnormal working environment.
 - 2) Without company's permission, the user disassemble, repair or refit the product without authorization.
 - 3) Damage caused by bad transportation after purchasing our products.
 - 4) Damage caused by other non resistance (flood, lightning, earthquake, abnormal voltage)
 - 5) Normal worn, broken and disseminated.
 - 6) Fake-not the product of my company
 - 7) Unable to provide valid shopping vouchers no warrantycards etc.

Fandei Electronics Co., Ltd.
No.78 Keji 2 Road, Xi'an, Shaanxi, China, 710075
E: jiang@fandesensor.com
T: +86 15902990387
W: www.fandesensor.com