

BLUETOOTH PRESSURE TRANSMITTER

MANUAL

I. NOTICE

1. After receiving the product, please check if the packaging and appearance are intact, and verify if the transmitter model and specifications match the product you have purchased.
2. Install and wire the product correctly and reliably according to the provided process connections, electrical connections, and installation methods.
3. Do not install with power on!
4. Please pay attention to the technical specifications and usage conditions of the product during use, such as allowable medium temperature, overload pressure, power supply voltage, etc.
5. Sensors are precision components, and users should not disassemble them by themselves or touch the membrane with hard objects to avoid damage to the product.
6. During the installation process, pay attention to protecting the product and do not forcefully install or disassemble it, otherwise it is easy to damage the product, especially the installation threads.
7. Please use a suitable wrench during installation or disassembly. Do not forcefully twist the housing by hand to tighten or disassemble, otherwise the damage caused is not covered by the warranty.
8. Installation and power on testing generally require several minutes for the product to stabilize output and function normally, which is a normal phenomenon.
9. After installation, if abnormal phenomena occur during power on testing, unless you have the equipment and skills to adjust the product, please contact our after-sales technical personnel for the product.

(!) Product damage caused by non professional operations that do not follow the operating procedures is not covered by the warranty.

II. WARNING

1. When the ambient temperature is above 60 °C, please use a forced fan or cooling machine for cooling.
2. The installation, debugging, and maintenance of this product should be carried out by qualified engineering and technical personnel.
3. The product casing should be reliably grounded to help resist electromagnetic interference and ensure electrical safety.
4. If the malfunction or abnormality of this product may lead to a major system accident, please install appropriate protective circuits externally to prevent accidents from occurring.
5. Our company does not bear any direct or indirect losses other than the product itself.
6. Our company reserves the right to change the product manual without prior notice.

III. DESCRIPTION

This product is an ultra small Bluetooth pressure transmitter. Can be used for Bluetooth networking, supports Bluetooth mini programs and apps for data export, optional Bluetooth gateway for data transmission, suitable for pressure monitoring occasions where wiring is inconvenient on site. The product is powered by button batteries and has a battery life of over 12 months.

- ☆ Powered by button batteries, with a battery life of over 12 months
- ☆ Compact size, maximum height 82.5mm
- ☆ Bluetooth transmission, supports EXCEL data export function
- ☆ Optional Bluetooth gateway for remote management

IV. SPECIFICATION

Range: see product label for details

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

Output method: Bluetooth output

Installation thread: M20 * 1.5 G1/4 NPT1/4 and other threads (customizable)

Power supply mode: CR 2032 button battery (standard)

Overload capacity: < 10MPa 200%; ≥ 10 MPa 150%

Long term stability: better than $\pm 0.25\%$ /year

Operating temperature: -20~60 °C

Storage temperature: -40~80 °C

Shell material: PA 66

Interface material: 304 stainless steel

Transmission distance: >20 meters (open space)

Standby power consumption: <5uA

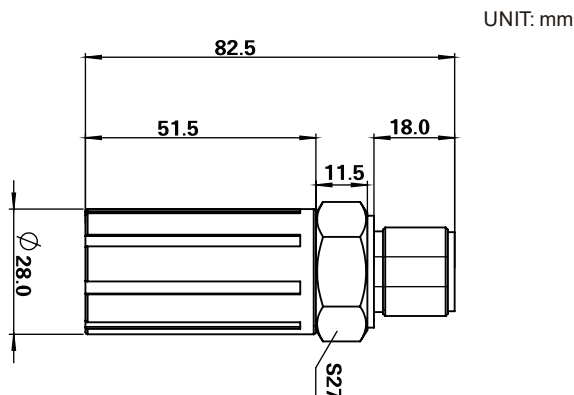
Measurement medium: Water, oil, and gas are non corrosive media for stainless steel

Attachment: CR 2032 Battery, Debugging APP

Frequency: 2402-2480 MHz

Transmit Power: 2.41 dBm

V. DIMENSION



VI. BLUETOOTH COMMUNICATION

1. This product can be debugged through on-site WeChat mini programs and APP clients. The set parameters include: data collection frequency, current pressure data, reset function, etc.

- ① Android: Open "Google Play" on your Android phone, search for "SECA" to download the app.
- ② iOS: Open the "App Store" on your iOS phone and search for "SECA" to download the app



SECA



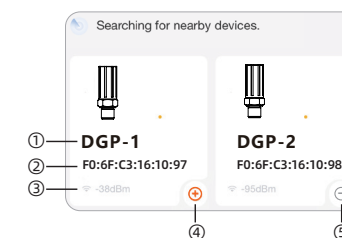
Android/ios

Both of the above methods can search for devices, just connect.

Note: To ensure the normal connection of the mobile phone to the device, please keep the cellular data, positioning, and Bluetooth functions on at all times.

2. After installing "SECA", device debugging can be carried out through the following operations:

2.1 Main interface composition



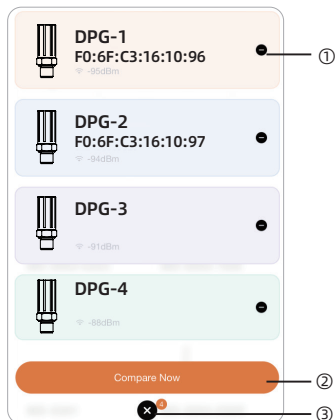
2.2 Sub interface composition



Note:

- ① Under the secondary interface, the version number of the software function can be viewed.
- ② Users can switch app languages in the language function menu. (After selecting, you need to restart the app)

2.3 Multi device connection group mode

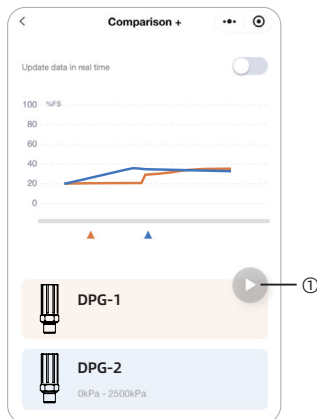


Note:

- ① : Remove added devices
- ② : Enter data comparison
- ③ : Click to switch to the device addition interface

*Up to 4 different Bluetooth devices can be added to the same group.

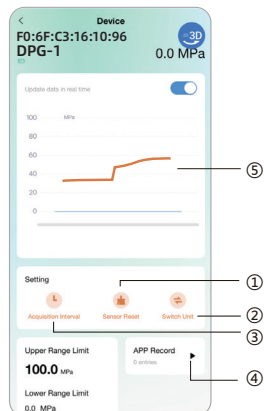
2.4 Data observation under multi device connection



Note:

- ① : Users can click the play button to enable/disable remote data recording. The final mobile phone will organize the collected data into EXCEL format.

2.5 Single device connection mode



Note:

- ① Sensor reset operation.
- ② Unit switching.
- ③ Modification of device collection interval.
- ④ Enable/disable remote data recording.
- ⑤ Pressure line chart.

2.6 Data export mode

excel21-815-387			
Unit	kPa		
Serial Number	Data	Time	
1	009:10:02:679		
2	009:10:03:679		
3	009:10:04:679		
4	009:10:05:679		
5	009:10:06:679		

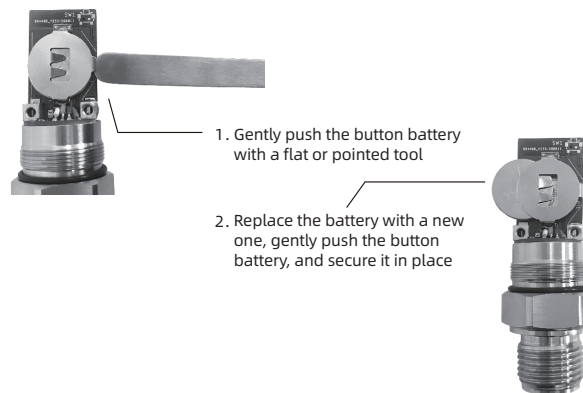
Note:

- ① In data export mode, the exported data includes parameters such as collection time, real-time pressure situation, serial number, etc.
- ② The total amount of exported data is related to the collection time and sampling frequency.
- ③ The larger the amount of data, the longer the export time. If the exported data exceeds 1000 at a time, please ensure that the digital pressure gauge and mobile phone maintain Bluetooth communication at all times.

VII. PROBLEM & SOLUTION

NO.	PROBLEM	REASON	SOLUTION
1	Zero position has a number	Zero drift or position effect	Place the product upright and reset it to zero
2	Pressure remains unchanged	1. Pore blockage 2. Sensor damage	1. Clean the air holes 2. Return to factory for repair
3	Bluetooth cannot connect properly	1. Bluetooth not found 2. Bluetooth module damaged	1. Exit the WeChat mini program and log in again to search 2. Replace the battery 3. Return to factory for repair

VIII. BATTERY REPLACEMENT



IX. AFTER-SALE SERVICE

1. After-sales service and warranty terms

The product warranty period is 24 months from the date of delivery. If our company's products fail during normal use within 7 days from the date of sale, consumers can choose refunds, exchanges, maintenance and other services. After consumers purchase our company's products, they can be repaired free of charge within two years if there is a failure that is not caused by human damage. The purchase time is based on the invoice or receipt date issued at the time of purchase.

2. The following situations do not qualify for the "Three Guarantees" service

- 1) All damage caused by human factors and use in abnormal working environment, failure and damage caused by not using according to the instructions or using in an environment not specified in the instructions, etc.;
- 2) Users dismantle, repair, and modify products without the consent of our company;
- 3) Damage caused by poor transportation after purchasing our products;
- 4) Damage caused by other force majeure (such as floods, lightning strikes, earthquakes, abnormal voltage);
- 5) Normal use, wear, cracking and contamination, etc.;
- 6) The products are mainly divided into shells, circuit boards and pressure-sensitive components. The normal wear and tear of the shell is not covered by warranty, and the shell will not be replaced. Over-range use or high-temperature use will cause circuit board damage and are not covered by warranty. The warranty does not cover damage to the pressure-sensing element caused by overpressure or touching the membrane with hard objects;
- 7) Products that do not belong to our company (such as fakes);
- 8) Failure to provide valid shopping receipts, no warranty card, etc.;
- 9) Some accessories are not covered by the three guarantees, such as batteries, etc. If there is any damage, please purchase accessories for this product.

Warning:

Do not disassemble the product without authorization!
It is strictly forbidden to insert sharp objects into the pressure-inducing hole!

X. FCC WARNING

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

RF exposure statement(uncontrolled environment)
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

XI. MANUFACTURER INFORMATION

Company Name: Shanghai XZT Fluid Technology Co.,LTD
Address: Room 2019, No. 5475, WenChuan Road, Baoshan, Shanghai, China