Please read this manual carefully before using the product.
Dear Users:
Hello, sincerely thank you for using our products. In order to ensure you safely, reliably, accurately use the products, please read the manual carefully before you use product.
This product manual detailedly introduces product technical parameters, application, equipment composition and operation, etc.
In order to permanently ensure the reliability and stability of this series instrument, please read the manual carefully before you use product.
You will have some new discovery and more practical using methods when you are actually operating the instrument, you have a particular opinion for the shape of the product, the structure and function. Looking forward to your valuable advice.
We will put your ideas into power to improve products, improve the service. Thanks for Your Cooperation!
# Table of Contents

1. Safety Precautions ............................................. 2
2. Overview .......................................................... 2
3. Working principle ............................................... 2
4. Common product types .......................................... 3
5. Technical parameters ........................................... 3
6. Wiring instructions ............................................... 4
7. Installation type .................................................. 6
8. Installation requirements ....................................... 7
9. Product Usage .................................................... 8
10. Exception handling .............................................. 9
11. Simulation board key debugging and operation method 10
12. Smart board cassette with HART operation method .... 13
13. Out of the box and check ....................................... 16
14. Precautions ...................................................... 16
15. Warranty .......................................................... 16
1. Safety Precautions
Pressure / differential pressure transmitter should be professional engineers or technical staff and other qualified personnel responsible for the installation, carefully read Product description and the contents of the label to provide important information before the installation and wiring operations.
Pressure / differential pressure transmitter from the external power supply, power supply circuit should meet the relevant standards of energy limit And pay attention to the high voltage that may exist in the circuit.
Pressure / differential pressure transmitter maximum static pressure overload has been marked on the product label, the process should not exceed the maximum pressure value Overvoltage / differential pressure transmitter full scale.
Use of pressure / differential pressure transmitters in hazardous applications, installation, use and maintenance should be accompanied by instructions and The relevant provisions of the national standard.

2. Overview
The company pressure / differential pressure transmitter with intelligent and analog two categories, intelligent transmitter is our reference Advanced experience at home and abroad, the use of fully isolated circuit technology designed with HART communication protocol of the fully isolated intelligent field test Measuring instrument.

3. Working principle
The pressure transmitter used in the pressure transmitter is the essence of the differential capacitor box. Process (gas or liquid)
Body pressure on the transmitter side of the pressure chamber on the sensor isolation diaphragm, as shown in Figure 1,2. Through the "irrigation Liquid "to its internal" center measurement diaphragm ", when the absolute pressure is measured, the reference pressure is zero pressure; When the gauge pressure is measured, the reference pressure is atmospheric pressure; when the differential pressure is measured, the reference pressure is the low pressure side pressure. By another The side is conveyed to the other side of the "center measuring diaphragm" in the same way. "Center measuring diaphragm" is a tension of the elastic element, and on both sides of the capacitor plate to form a differential capacitor, the pressure measured when the center of the diaphragm displacement Change, the displacement of the size of the pressure or differential pressure is proportional to the maximum displacement of about 0.1mm. "Center measurement diaphragm" Displacement deformation after compression in the "capacitor plate" to form a capacitance signal, the electronic components will eventually turn the capacitance signal for the two-wire DC 4 ~ 20mA signal output. "Center measurement diaphragm" and the capacitance between the two capacitor plates About 150PF.

Figure 1. Sensor side

Figure 2. Sensor profile
4. Common product types

5. Technical parameters

Accuracy class: 0.075, 0.1, 0.2, 0.5 and so on

Stability: within the range, within a year does not exceed the basic error.

Temperature effects:

<table>
<thead>
<tr>
<th>Accuracy grade</th>
<th>Temperature Coefficient/%FS/10°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1</td>
<td>±0.2</td>
</tr>
<tr>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td>±0.5</td>
</tr>
<tr>
<td>1.0</td>
<td></td>
</tr>
</tbody>
</table>

Insulation performance: in the ambient temperature (15 ~ 35) °C, relative humidity of 45% to 75%, the transmitter lost the insulation resistance of the terminal to the housing is not less than 20MΩ; when applying a 500V test voltage of 50Hz, 1min no breakdown and arcing phenomenon.

Static pressure effects: Static pressure effects are only applicable to transmitters that measure differential pressure. And the output lower limit and range of changes, the amount to measure. Its static pressure does not exceed the provisions of Table 2 below.
### Table 2 pressure / differential pressure transmitter static pressure requirements

<table>
<thead>
<tr>
<th>Static pressure (MPa)</th>
<th>Accuracy grade</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.1</td>
</tr>
<tr>
<td>Indicator (% of output range)</td>
<td></td>
</tr>
<tr>
<td>≤ 2.5</td>
<td>0.5</td>
</tr>
<tr>
<td>≤ 6.4</td>
<td>0.75</td>
</tr>
<tr>
<td>≤ 16</td>
<td>1</td>
</tr>
<tr>
<td>≤ 25</td>
<td>1.5</td>
</tr>
<tr>
<td>≤ 32</td>
<td>2</td>
</tr>
<tr>
<td>≤ 40</td>
<td>3</td>
</tr>
</tbody>
</table>

Mechanical vibration: vibration frequency: 50Hz, full amplitude: 0.2mm, which lasted 2 hours vibration, the lower limit of its measurement and the range change <0.075%

Mounting position effect: When the transmitter is tilted by ± 10° in the mounting position, its measuring lower limit and range change. The amount should not be greater than one-third of the absolute value of the basic error or 200Pa (whichever is greater).

Pressure connection: the transmitter pressure chamber connection hole for the NPT 1/4, with T-connector, the T-connector. The connection thread is M20 × 1.5 (male thread), the center distance of the two injection holes is 3 sizes to choose from (its size and structural form).

Weight: 3051 about 4kg (not including accessories)

Explosion protection: Exd II CT6 Gb

6. Wiring instructions

As shown in Figure 3: power supply is connected to the transmitter through the signal line, power and signal sharing a pair of wires, no external wiring. The power terminals are divided into positive and negative terminals and are located in the power supply compartment of the instrument case. When wiring, remove the power supply cover, the power line through the hole through the positive and negative power supply signal line is connected to the positive and negative terminals.

Power signal cable can be used twisted pair, the electromagnetic interference is more serious site, it is recommended to use shielded wire, and good grounded. Power signal line cross-sectional area should be 0.5mm² ≤ S ≤ 2.5mm², can not wear with other power lines with the same A metal tube or placed in the same trunking, nor should it pass near the strong electric equipment.

The threading hole on the instrument case is sealed with a sealing plug (M20 × 1.5 for the bolt) to avoid the power supply of the instrument case.

Warehouse room moisture accumulation. If the power cord threading hole is not sealed, the threading should also be carried down to discharge the liquid.
Power supply load
Since the HART digital communication signal is superimposed on the loop (4 to 20) mA, the "HART Communicator" must pass The "load resistance" in series on the loop can send or receive HART digital communication signals. To make the power supply and Communication work, "load resistance" of the resistance to be in a certain range, it is recommended to use 250Ω. Power supply Pressure and the "load resistance" relationship shown in Figure 4:

Load resistance RL Calculation formula:
\[ RL = \frac{Vs - 12}{0.026} \ (\Omega) \]
RL - Load resistance
Vs - Power supply pressure
HART communication, power supply
The range is (18.5~36) VDC

Figure 3 Transmitter field wiring

Figure 4 power supply voltage and load resistance
Grounded
Choose shielded twisted pair signal cable the best, in order to avoid grounding circuit, shielded with single-ended grounding, Insulated floating on the pressure transmitter side and grounded on the control cabinet side.

The transient-resistant built-in module is only valid for good grounding conditions. Stainless steel metal housing and internal ground terminal On the ground directly grounded.

Cable protection system

Standard protection system
In order to avoid the flow of liquid along the cable, resulting in waterproof joints into the junction or into the junction box, in the threading box and the pressure transmitter should be connected to the figure shown in the U-ring, and the U-shaped bottom below the pressure change Transmitter. And consider the replacement of the need to repair, set a sufficient length of the cable.

Waterproof pipe protection system
In a hazardous installation, use a flameproof pressure transmitter. The metal cable should be used to connect the signal cable to the lead box and lead to a safe area.

7. Installation type
The transmitter can be mounted at the measuring point, or mounted on a wall or using a mounting bracket (transmitter(The diameter of about 50mm ~ 60mm) on the pipeline. The main types of the installation of the transmitter: bending bracket tube, bending bracket plate, flat support tube and plate mounted four (for the user select).
8. Installation requirements

I. Before installation, please check the signs on the model, range and work power and the use of the site requirements are consistent.

II. The difference in mounting position may result in zero error, but can be corrected without affecting the range. To avoid measuring the accuracy of the measurement in the presence of solid precipitates or other viscous materials in the measuring medium, it is advisable to apply the inlet vertically downward (or to a certain angle) when installing the product. When measuring high temperature media, use a pressure pipe or other cooling device to reduce the temperature to the temperature range that the transmitter can use.

III. Try to install the transmitter in a ventilated and dry environment, away from strong magnetic field interference (if you can not avoid the magnetic field interference, it is recommended to install the isolator). When installing in open air, avoid direct light and rain, otherwise it may cause transmitter performance, deteriorate or malfunction.

IV. The transmitter should be installed wherever the temperature gradient and temperature fluctuation are small, while avoiding strong vibration and shock.

V. If the test medium is viscous or precipitated, please use no cavity, diaphragm exposed structure, and regular cleaning, so as not to cause errors. For other special applications, it must be stated at the time of order for special production.

VI. It is recommended that the transmitter be operated within the compensation temperature range, otherwise the performance will decrease.

VII. Ambient temperature or measurement medium temperature suddenly drastic changes, the transmitter signal beating, is a normal phenomenon. After the ambient temperature and medium temperature is stable, the transmitter signal will be stable.

VIII. Not specially trained personnel shall not arbitrarily open the transmitter, so as not to damage. If the transmitter fails, Please return to the nearest service point of the company, pay professional and technical personnel maintenance.

IX. Transmitter is a precision meter, should be regularly to the relevant departments calibration.

X. The level transmitter is based on the pressure formula: \( P = \rho gh \) through the pressure measurement to achieve the level measurement, the transmitter factory calibration, the user does not specify the case, according to the standard gravity acceleration \( g = 9.8 \text{m} / \text{s}^2 \) and the density of \( 1 \text{g} / \text{cm}^3 \) to determine the corresponding relationship between liquid level and pressure. Therefore, in actual use, according to the use of gravity plus Speed and the density of the measured liquid to be amended, or will produce a larger measurement
9. Product usage

Pipeline pressure measurement
- differential pressure transmitter

for high temperature steam measurement, should be in the injection tube in advance into the cooling water, Wait for the steam in the pipe to stabilize and slowly open the shut-off valve to start the measurement.

Differential pressure measurement

Differential pressure transmitter for differential pressure monitoring, especially for filters and equipment Leakage test and other high static pressure differential pressure range, improve the measurement accuracy.

Steam flow measurement

Steam flow measurement, the pressure tube upward tilt 45 °, differential pressure transmitter The installation location is lower than the process pipeline. Should increase the isolation tank and multiple shut-off valve, Pre-injection of the cooling fluid in the pressure tube, and regularly open the exhaust drain valve, row of pressure to remove the pipeline of residual gas to ensure the measurement accuracy.

Liquid flow measurement

Liquid flow measurement, the pressure tube down 45 °, differential pressure transmitter The installation location is lower than the process pipeline. Should increase the isolation tank and multiple shut-off valve, Regularly open the exhaust drain valve, row to remove the residual gas pipeline pressure pipe to ensure the measurement accuracy.

Gas flow measurement

Gas flow measurement, the pressure tube upward tilt 45 °, differential pressure transmitter

The installation location is higher than the process pipeline. Should increase the isolation tank and multiple shut-off valve, Regularly open the exhaust drain valve, row to remove the residual gas pipeline pressure pipe to ensure the measurement accuracy.
Sealed container level measurement

Differential pressure transmitter for the sealed container level measurement, should increase the isolation tank and a number of shut-off valve, and regularly open the exhaust drain valve, row of pressure to remove the pipeline of residual gas liquid to ensure measurement accuracy.

Open container level measurement
- single flange level transmitter

The level measurement for the open container should take into account the compatibility of the media and the installation of the liquid level and temperature changes in the position, help to improve the measurement accuracy.

Sealed container level measurement
- single flange liquid level transmitter

Single flange diaphragm system for the measurement of liquid level of closed containers, should increase the isolation tank and a number of shut-off valve, regularly open the exhaust drain valve, row to remove the pressurized pipe residual gas liquid to ensure the measurement accuracy.

Sealed container level / density / interface measurement

Selection of differential pressure diaphragm system measurement at static pressure close to the vacuum, differential pressure transmitter installation location should be lower than the high pressure side of the pressure mouth 1 meter.

Process pipeline or pressure tube of the media affected by the surrounding environment, may freeze the phenomenon, the need to increase the anti-freeze measures.

10. exception handling

The measurement signal is abnormal, should determine whether the process pressure is abnormal, the measurement system error, the installation of the ring Environmental impact or pressure transmitter abnormalities, and then analyze the reasons for the corresponding measures.

No signal output, the process of pressure changes in the output signal without corresponding changes or changes do not correspond, etc., may be pressure Force transmitter abnormalities, should check the power supply polarity or open circuit, voltage, power consumption and load resistance is to meet the positive Often work requirements, but also to check whether there is leakage of pressure and pressure tube blockage, shut off the valve is not open and so on.

The output signal error is large or out of normal range, should check the supply voltage, power consumption and load resistance to meet the pressure Force transmitter normal work requirements, measurement range settings, adjust the calibration is correct, but also check the existence of pressure Leakage and impulse tube clogging, shut-off valve not open and pressure Transmitter installation occasions for the presence of rapid temperature fluctuations.
11. simulation board key debugging and operation methods

I. Overview

II. no liquid crystal display module transmitter key operation
When the transmitter without liquid crystal display module, the use of the circuit board comes with the keys S and Z (shown in Figure 1) can do the following.

II.1 zero clearing
To ensure that the transmitter is in the power state and in a zero pressure state, while holding down the S button and Z button for more than 5 seconds, and then release the two buttons at the same time again press and hold the two keys to maintain about 3 seconds, the transmitter will be the current The pressure value is cleared.

II.2 Lower limit calibration (zero active migration)
To ensure that the transmitter is in the power state and in the range of the lower limit of pressure state, while holding down the S button and Z button for more than 5 seconds, and then release the two buttons at the same time, hold down the Z button for about 3 seconds, the transmitter current pressure as the range Lower limit, but the transmitter range does not change. For example: the transmitter range of 0-5kPa, the current pressure of -1kPa, when the implementation of this operation, the transmitter range becomes -1-4kPa.

II.3 Upper limit calibration (full point calibration)
To ensure that the transmitter is in the power state and in the range of the upper limit of pressure state, while holding down the S button and Z button for more than 5 seconds, and then release the two buttons at the same time, hold down the S button for about 3 seconds, the transmitter current pressure as the range The upper limit of the range of the transmitter does not change. For example: the transmitter range of 0-5kPa, the current pressure of 4kPa, when the implementation of this operation, the transmitter range becomes 0-4kPa.

III. There is a liquid crystal display module transmitter key operation
When the transmitter with a liquid crystal display module, the transmitter can not only achieve the operation described in 2, you can also use the LCD module comes with three buttons to achieve the parameters of the transmitter configuration, press the button b see Figure 2 As shown.
Note: If the transmitter parameters can not be modified, please modify the menu item "write protection" to "off" (specific operation can be Refer to the menu structure).
III.1 Key description

<table>
<thead>
<tr>
<th>Key icon</th>
<th>Key name</th>
<th>Key function</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="s" alt="image" /></td>
<td>S</td>
<td>In the menu state for the return function, in the parameter setting state for the shift function, the button also has the second item S key function.</td>
</tr>
<tr>
<td><img src="m" alt="image" /></td>
<td>M</td>
<td>Menu and parameter confirmation button.</td>
</tr>
<tr>
<td><img src="z" alt="image" /></td>
<td>Z</td>
<td>In the menu state for the selection function, in the parameter setting state for the +1 function, the button also has a second Z button function.</td>
</tr>
</tbody>
</table>

III.2 menu structure (see below)
III.3 Configuration operation

When you want to configure the transmitter, make sure that the transmitter is energized and in the measurement display. Press and hold the M button for about 5 seconds to display the main menu interface and release the button to enter the configuration menu. Press the S key to return Main menu, press the Z key to select the menu item, M key to confirm the key.

When you enter the specific parameter setting interface, press the S key to cycle through the need to modify the bits, including the number, decimal point and minus sign. Press the Z key to modify the selected bit, the digits are +1, the decimal point moves round, the negative bit is positive and negative. Press M to save the changes and return to the previous menu.

● Example: (For other operations, see the menu structure.)
Modified units (KPa, mH2O, MPa, M, inH20, mmH2O, PSI, bar, mbar, Pa, %, etc.)

On the main menu page,
→ press the Z key to move the selection up and down, select "range unit", short press M to enter;
→ Press the Z key to move the selection up and down, select "Unit", press M to enter;
→ press Z to select the unit, press M key to confirm the selection, then the right side appears √ indicates the operation is successful, otherwise Please check if "write protection" is "off";

● Modify the limit
On the main menu page,
→ press the Z key to move the selection up and down, select "range unit", short press M to enter;
→ press the Z button to move the selection up and down, select "upper limit", short press M to enter;
→ press the S key to select the modified bit, press the Z key to modify the number, if the button does not respond, please check the "write protection"
Whether it is "off";
→ Press M to save and return to the upper interface.

● Modify the lower limit
On the main menu page,
→ press the Z key to move the selection up and down, select "range unit", short press M to enter;
→ press the Z key to move the selection up and down, select "lower limit", short press M to enter;
→ press the S key to select the modified bit, press the Z key to modify the number, if the button does not respond, please check the "write protection"
Whether it is "off";
→ Press M to save and return to the upper interface.

● Restore factory value
On the main menu page,
→ press the Z key to move up and down options, select "dampingtime", short press M to enter;
→ press the S key to select the modified bit, press the Z key to modify the number, the number is set to "88.888";
→ Press M to save, then the transmitter's parameters will be restored to the factory state.
If there is no key operation for 15 seconds in the menu or parameter setting state, the transmitter will automatically exit the parameter
The array is configured and returned to the measurement
12. smart board with HART button debugging and operation methods

Key Function Code Lookup Table

<table>
<thead>
<tr>
<th>The lower left corner of the &quot;88&quot; character display</th>
<th>Set the variable</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 or empty</td>
<td>normal display</td>
</tr>
<tr>
<td>1</td>
<td>Enter &quot;××××××××××&quot;, you can enter 2, 3, 5, 6, 8 and 9. The remaining 4,10,11 items Order down (x for any number)</td>
</tr>
<tr>
<td>2</td>
<td>Set the unit</td>
</tr>
<tr>
<td>3</td>
<td>Set the lower limit of the range</td>
</tr>
<tr>
<td>4</td>
<td>Set the range upper limit</td>
</tr>
<tr>
<td>5</td>
<td>Set damping</td>
</tr>
<tr>
<td>6</td>
<td>The main variable is zeroed</td>
</tr>
<tr>
<td>7</td>
<td>Zero migration and range migration (zero and full)</td>
</tr>
<tr>
<td>8</td>
<td>Output characteristics (set linear output, or prescribing output)</td>
</tr>
<tr>
<td>9</td>
<td>Lower limit of calibration</td>
</tr>
<tr>
<td>10</td>
<td>Calibration limit</td>
</tr>
<tr>
<td>11</td>
<td>Any point of migration</td>
</tr>
</tbody>
</table>

Monitor button adjustment method:
"Z" key is used to enter the prompt data setting interface and the shift, "S" key is used to enter the data setting interface, Plus the number and data save, "M" key for data storage and enter the next prompt data settings interface.

1. the data set method
When the "88" character in the lower left corner shows 1 to 7, it indicates that the transmitter is in the field configuration mode.
Enter the password by pressing the key, modify the parameter, or migrate it.
The setup process is as follows:
I. Press the S key to enter the data setting interface, while the symbol bit starts to flash, that can modify the sign bit.
II. If you press the S key again, you can switch the positive and negative data (positive sign is indicated by an arrow).
III. Press the Z key, the first digit bit starts flashing, that can be modified, then press or press repeatedly S key, Set the number to cycle between 0 and 9.
IV. Press the Z key again to set the second digit to the fifth digit, and the setting method is exactly the same as the first one.
V. After setting the fifth digit, press the Z key to start setting the decimal point. Four decimal points at the same time begin to flash, that can set the decimal point, then press the S key, the decimal point position cycle switch. When the decimal point is set, press Z key, the lower left arrow starts flashing, indicating that you can save the settings.
VI. Press the S key to save the settings; press the Z key, the symbol bit starts flashing, you can restart the setup data.
Note: "three key" mode of operation, in the data set up process, at any time you can press the M key to fast save the settings without having to wait until the down arrow flashes to save the settings.
2. the key function description (according to: key function code look-up table corresponding to the function of operation)

2.1 main variable zero (clear) function
In the real-time normal display state, while pressing the "M" + "Z" key, and keep 5 seconds, directly into the main variable Zero function. After entering the "main variable zero" function, the lower left corner of the function code shows "6", the lower area shows "YES" Or "NO". When "YES" is displayed, press "M" or "Z" to execute the "Main Variable Zero" operation. When this function is executed, the output pressure is "0". When "NO" is displayed, press "M" or "Z" to end the "Main Variable Zero" operation.
Press the "S" key to toggle between "YES" and "NO".

2.2 Configuration function
In the real-time normal display state, press the Z key to enter the configuration data setting state. Enter a different opcode,
Then enter the different function settings interface. If the setting data exceeds the limit, the LCD displays "OVER", then press the S key or
The Z key can be reset. After the completion of the settings to return to normal display state, if in 10 seconds again press the Z key,
The configuration setup process is resumed and the input code verification step is ignored. After entering the configuration data set, if 2 points
If there is no button in the clock, it will return to normal display. The first four digits of the input code can be any number, and the fifth bit corresponds to the opcode Function, enter other data, then return to the normal display.

2.2.1 Unit setting
When the unit is set, the currently selected unit flashes in the lower right corner of the LCD. The unit setup process is as follows:
1) Press the "S" key to select the main unit (kPa, Torr, atm, MPa, inHO, inHG, FtHO, mmHO, mmHG, psi, bar, mbar, gcm, kgcm, Pa, etc.);
2) Press the "Z" key or the "M" key to confirm the currently selected unit of the main variable and enter the "Lower limit settings" function interface.

2.2.2 Range setting
When setting the range, you must first enter the "range lower limit" and enter the "range limit". Set the range process, the lower left corner of the opcode display "03" or "04", respectively, corresponding to the input "lower limit"
And "upper limit". After the lower limit of the range is entered, the setting of "Range upper limit" is automatically entered.

2.2.3 damping settings
You can enter the damping page directly by entering the opcode "5", or set the damping directly after setting the range limit. The lower left corner of the opcode shows "05", that set the damping value. The input of the damping value
If the input damping value is "05678", the "Restore factory setting" operation will be performed automatically. (This is required to be executed at the factory.) Note: If the input damping value is "05678" "Data backup" operation
2.2.4 Output feature setting
When the output characteristics are set, the lower right corner of the LCD flashes to display the currently selected output characteristic (linear LIN output, or Prescribing SQRT output). The setup process is as follows:
1) Press the "S" key to select the current output mode in turn;(LIN indicates the linear current output, SQRT represents the square current output)
2) Press the "Z" key or the "M" key to confirm the currently selected output characteristic and end the current setting and return to the "End Setting" function screen. 【Function code "0" is displayed at the bottom of the LCD. If there is no key operation within 10 seconds, it will return to normal display, otherwise it will continue to set from the range unit [no need to re-enter

2.2.5 Zero migration and range migration [zero and full]
In the real-time normal display state, while pressing the "Z" key and "S" key, and keep 5 seconds into the zero migration
And range migration status. At this point the lower left corner of the opcode display "07", that can be zero and full operation.
"Zero point transition", that is, "zero" operation: the current pressure is set to the lower range, the transmitter output adjustment
For 4mA. "Range migration", ie "rollover" operation: current pressure is set to range upper limit, transmitter output
Adjust to 20mA. During the setting process, if no button is pressed for 2 minutes, the normal display status is returned.

2.2.6 upper and lower limit calibration and any point of migration
Lower limit calibration: in real-time normal display state, press the Z key to enter the opcode set state, LCD lower left corner
"1" is displayed. Enter "× × × × 9" (that is, the previous 4 can be any number), then enter the lower limit of the calibration state.
Given the lower limit of the corresponding pressure signal, after stabilization, through the "one, data set method" set the lower limit calibration value, finished
Lower limit calibration.
Upper limit calibration: first enter the lower limit calibration function interface, and then press the "Z" or "M" key down, when the lower left corner
When the opcode "10" is displayed, it means entering the calibration upper limit function.
Given the upper limit of the corresponding pressure signal, after stabilization, Set the upper limit calibration value by using the "data setting method" to complete the upper limit calibration
Any point of migration: first enter the lower limit calibration function interface, and then press the "Z" or "M" key down, when the lower left corner
When the opcode is displayed "11", it means to enter the arbitrary point of the migration function. Given the pressure signal, stabilize after passing the "number
According to set the method "set the current pressure value (ie., the given pressure value), complete any point migration

2.2.7 Display the variable settings
Display variables are "current", "percentage", "main variable"three, can display one or alternately display two of them. In the real-time normal display state, the use of S key can change the two display variables,
when the two display variables set to the same parameters, the screen fixed display a variable; when the two display variables set to different parameters, the screen Alternately displays two variables. Method: Press the "S" key, the current display variable (such as: current) changes, cycle display "current, percentage, the main variable", when the required display variables (such as: the main variable) appears on the screen, release "S" key, that is, to achieve the display variable "current" to "main variable".

2.2.8 Restore factory settings
If the transmitter has been factory, the configuration and other data were backed up, you can enter the damping by pressing the key "5678" to the scene to recover data. By pressing the key, in the fifth entry, enter the damping, enter "05678" and save, will restore the backup data. [This operation does not affect the true damping value]

13. Out of the box and check
1. Please check the packaging before the box is not deformed or damaged, and photographed as a basis for post-compensation.
2. After unpacking, please check whether the contents of the deformation or damage and all the quality problems, and take pictures as a matter of time compensation basis.
3. Please check whether the content is consistent with the order, the number is correct.
4. If you have any of the above abnormal conditions, please contact us within 7 days (together with the photo), otherwise it will not be given free replacement or repair.
5. Packing accessories: a) brochures B) product certification

14. Notes:
caveat! Damage to the product can not be repaired when one of the following conditions occurs:
I, the measured pressure exceeds the product "overload capacity
II, the power supply is greater than 36VDC or AC power supply.
III, with a hard object pestering the diaphragm or the measured medium coagulation.
IV, measurement of corrosive or beer, hydrogen and other media, and the order is not stated.

15. The warranty
I, since the date of delivery within one year, due to material and process problems caused by quality defects or performance can not reach Contracted products are given free repair or replacement.
II, pressure diaphragm deformation or other damage caused by improper use of the user, does not belong to the warranty list.
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