

Intelligent pressure controller



instruction manual

1、 Overview

Intelligent pressure controller is an intelligent digital pressure measurement and control product integrating pressure measurement, display, output and control. The product is of full electronic structure. The front end adopts oil pressure resistive pressure sensor with isolation film. It is converted by high-precision A / D, processed by microprocessor, displayed on site, and outputs one analog quantity and two switching quantities. The intelligent digital pressure controller has the advantages of flexible use, simple operation, safety and reliability. It is widely used in hydropower, petroleum, chemical industry, machinery, hydraulic and other industries to measure, display and control the pressure of fluid medium on site.

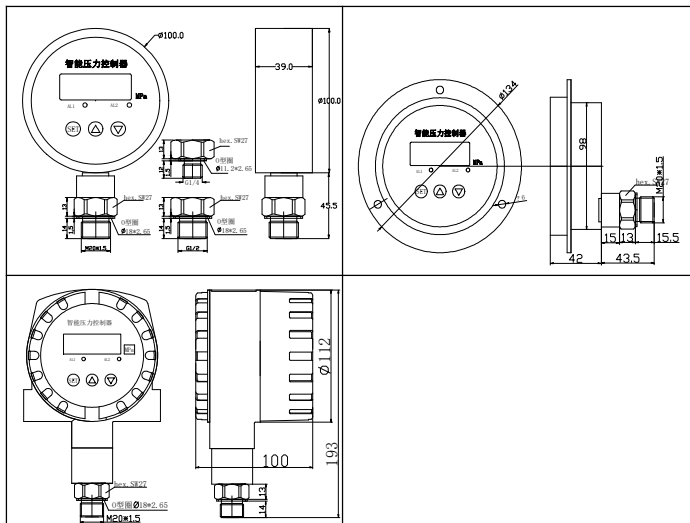
2、Characteristic

- ◆100 standard instrument installation
- ◆4-digit LED display, ignoring value error
- ◆Control points are set on site.
- ◆Two way control point relay output
- ◆4 ~ 20mA standard signal output (optional)

3、Technical parameter

Range range	0~100MPa	Accuracy class	0.5%F.S.
Overload capacity	200%	Pressure type	Gauge pressure
Stability	≤0.1% /year	Supply voltage	24VDC/220VAC
Display mode	0.56"Digital tube	Display range	-1999~9999
Response time	<30ms	ambient temperature	-20℃~70℃
Relative humidity	≤80%	Interface material	304

4、Overall dimensions



5、Installation

5.1 Mechanical connection:

It can be directly installed on the hydraulic pipeline through the pressure pipe joint (M20*1.5) (other size

joints can be specified when ordering). In critical applications (such as violent vibration or impact), the pressure pipe joint can be mechanically decoupled by micro-hose.

Note: When the measuring range is less than 100KPa, it must be installed vertically.

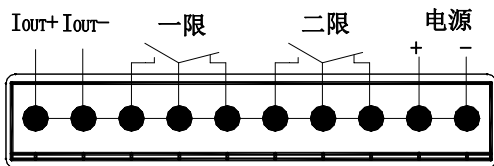
5.2 Electrical connection In order to prevent the influence of electromagnetic interference, the following matters should be noted:

- The line connection should be as short as possible.
- Use shielded wire.
- Try to avoid directly approaching the wiring of user devices or electrical and electronic devices that cause interference.
- If micro hose is used for installation, the shell must be grounded separately.

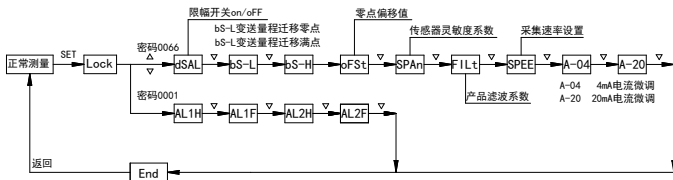
6、Wiring

Red V+ Yellow V- Orange OUT+ White OUT-

Blue ON Green COM1 Brown ON2 Grey COM2



7、Set the function



Quick reset: under no pressure condition, press and hold "▲" for 3 seconds, and it will be cleared to display zero (even several operations will restore the factory zero).

Filter: This value is the display filter coefficient to

prevent the display from jumping due to pressure fluctuation. The larger the filter coefficient is, the more stable the display is, but the later it is. 0~4 optional
AL1H This value is the switch 1 engagement value
AL1F, and this value is the switch 1 release value. AL2H
This value is the switch 2 engagement value AL2F, and
this value is the switch 2 release value. END save exit

Note: The switching point is determined by the configuration of the pull-in value and the release value. When the pull-in value is greater than the release value, it is the upper limit alarm output (normally open function), and when the pull-in value is less than the release value, it is the lower limit alarm output (normally closed function). The difference between the pull-in value and the release value is the return difference of the switching point.

Example: set switch point 1 as the upper limit alarm output (normally open function) to be switched on at

4Mpa, and switched off when it is less than 3.80Mpa;
Point 2 is the lower limit alarm output (normally closed function), which is disconnected at 10MPa, and is absorbed below 9.80Mpa:

Enter the menu: Settings.

AL1H=4.00 AL1F=3.80 AL2H=9.80 AL2F=10.00

● Press the "SET" key ● Display "LOCK" (prompt for password)

● Press the ▲ or ▼ key to enter the password "1", and press the "SET" key to confirm.

● Press the ▲ or ▼ key to scroll up or down for menu selection (AL1H, AL1F, AL2H, AL2F, END)

● Press the "SET" key to enter the selected menu. ●

Press ▲ or ▼ to change the settings.

● Press the "SET" key to confirm, and if necessary, use the ▲ or ▼ key to select other menus to modify.

● Select "END" after modification, and press "SET" key to confirm saving and exiting.

- If no key is pressed for 30 seconds, the setting state will automatically exit, but the modified data will not be saved.

8、 Instructions for use:

The storage and use of the instrument is suitable for occasions where the ambient temperature is $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$ and the humidity is less than 80%.

The connector of the instrument should be concentric when connecting the pipeline.

When the instrument is connected to the power supply, it should be operated according to 5.2 Electrical Connection. It can only be connected to the power supply for operation after the operation is confirmed to be correct.

When disassembling the instrument, do not apply force to the instrument shell.

9、 the quality assurance

Under the condition that users abide by the rules of use and protection, the instrument will be guaranteed for one year from the date of manufacture. The maintenance after one year will be carried out in our company. We always welcome your letters, calls and suggestions.