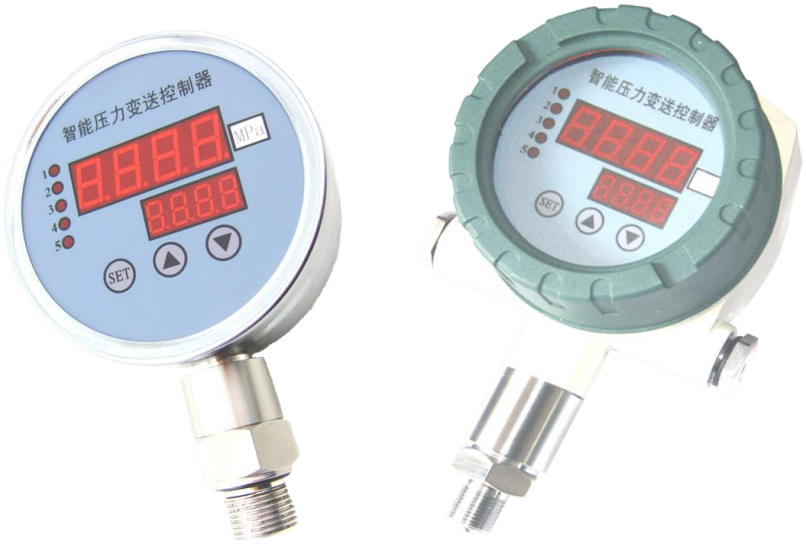
fande®

DR3601 Series Intelligent Pressure Controller

-5 Relays



Description

The intelligent pressure controller is an intelligent digital pressure measurement and control product which integrates pressure measurement, display, output and control. The product is of full electronic structure. The front end of the product adopts oil pressure resistance pressure sensor with isolation film. It is converted by high-precision A/D, processed by microprocessor, displayed on site, and outputs one analog and two switching values.
The intelligent digital pressure controller is flexible to use, simple to operate, easy to debug, safe and reliable. It is widely used in hydropower, tap water, petroleum, chemical, mechanical, hydraulic and other industries to measure, display and control the pressure of fluid medium on site.

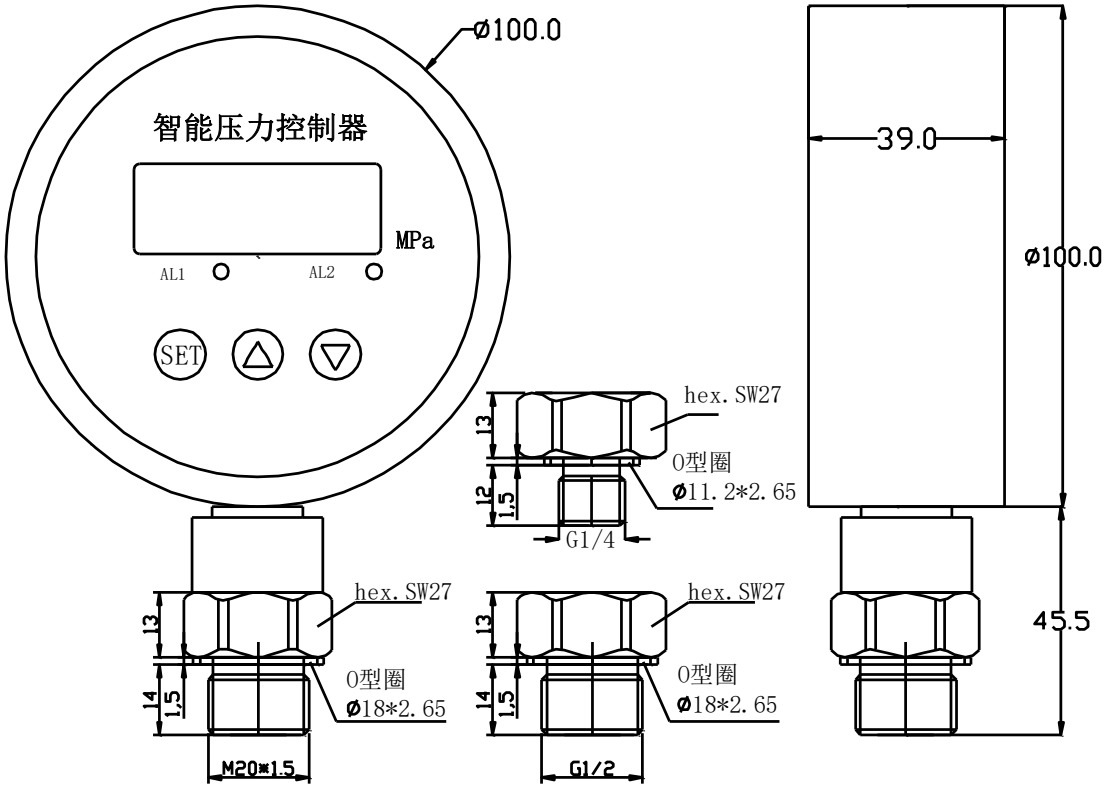
Features

1) 100 instruments standard Installation
2) 4-digit LED digital tube display, no the value error
3) Five way control point relay output 220V 3A
4) 4 ~ 20mA, RS485 standard signal output (optional)
5) Setting control points on site
6) The power supply can be selected as 24 VDC and 220 VAC

Technical Parameters

Measuring range	0~100MPa	Accuracy	0.5%
Overload	200%	Pressure type	Gauge pressure
Stability	≤0.1% /Year	Power Supply	220VAC/24VDC
Display	0.56″ LED	Display range	-1999~9999
Ambient temperature	-20℃~70℃	Relative humidity	≤80%
Mounting thread	M20*1.5	Protection level	IP65

Dimension



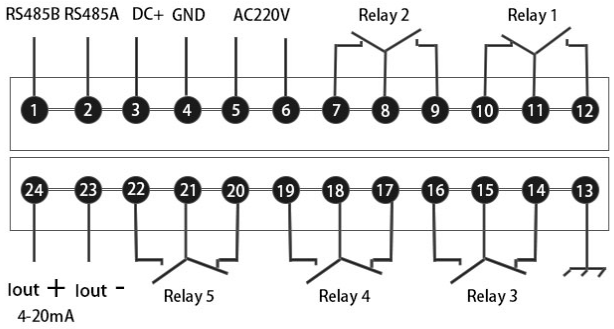
Installation

Mechanical connection

It can be directly installed on the hydraulic pipeline through the pressure pipe joint (other size joints can be specified when ordering). In critical applications (such as severe vibration or shock), the pressure pipe joint can be mechanically decoupled by hose.

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

Electrical connection



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

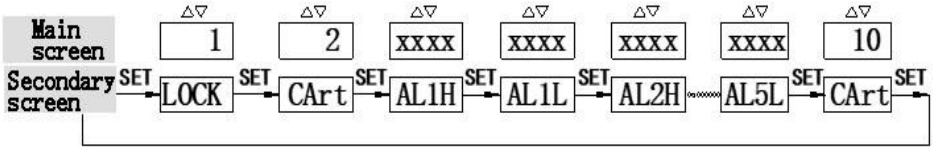
●The line connection shall be as short as possible
●Use shielded wire
●Try to avoid direct access to the user's device or the wiring of electrical and electronic devices that cause interference
●If hose is used for installation, the shell must be grounded separately

Setting

Output

There are five ways of switch output. The corresponding output will switch when the pull-in value of the switch point reaches and return when the pressure drops below the release value.

Set switching point



AL1H this value is the switch 1 pull-in value
AL1L this value is the release value of switch 1
AL2H this value is the switch 2 pull-in value
AL2L this value is switch 2 release value
AL5L this value is the release value of switch 5
END save and exit

Note: The switch point is determined by the pull-in value and the release value configuration. 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 value and the release value is the hysteresis of the switching point.

Example: To set switch point 1 as the upper limit alarm output (normally open function) at 4Mpa and disconnect when less than 3.95Mpa; switch point 2 is the lower limit alarm output (normally closed function) to disconnect at 10Mpa, lower than 9.95Mpa Suction:

Enter the menu: Settings
AL1H=4.00 AL1L=3.95
AL2H=9.95 AL2L=10.00
●Press the "SET" key
●Secondary screen displays "LOCK" (prompt for password)
●Press ▲ or ▼ key to enter the password "1",
●Press the "SET" button to confirm, the Secondary screen displays cart
●Press ▲ or ▼ to select the menu: 2 is the switch point setting (10 is to save and exit, 7 is to exit the menu without saving)
●Press "SET" key to enter the selected menu (AL1H、AL1L、AL2H、…AL5L)
●After the modification is completed, press the SET button to select the menu CART, and after modifying the parameter to 10, press the "SET" button to confirm and exit.
●If no key is pressed for 30 seconds, it will automatically exit the setting state, but the modified data will not be saved.

Instructions for use

1. The storage and use of the instrument are suitable for occasions where the ambient temperature is -20° C~70° C and the relative humidity is less than 80%.
2. The instrument connector should be concentric and flat when connecting the pipeline.
3. When the meter is connected to the power supply, please refer to 5.2 electrical connection for operation. After confirming that the operation is correct, the power supply can be connected for operation.