

Electronic Digital Pressure Switch

Instruction Manual

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1. Overview

Intelligent pressure M off is a set of pressure measurement, display, output, control in one of the intelligent digital pressure measurement and control products. The product is all-electronic structure, the front end with isolation membrane oil-filled piezoresistive pressure sensor, the output signal by the high-precision, low-temperature-drift amplifier amplifier processing, sent to the high-precision A/D converter, converted into a microprocessor can be handled by the digital signals, after the arithmetic processing of signals to control the two switches to control the system pressure for measurement and control. The intelligent digital pressure switch is flexible in use, simple in operation, easy in debugging, safe and reliable. Widely used in water and electricity, water, petroleum, chemical, machinery, hydraulic and other industries, the pressure of the fluid medium for measuring display and control.

2.FEATURES

- ◆4-digit digital display.
- ◆Pressure preset switching point and delay switching output.
- ◆Switching quantity can be set arbitrarily between zero point and full degree.
- ◆ The shell is equipped with node action light-emitting diode for easy observation.
- ◆ Key calibration and on-site setting of various parameters, easy to operate.
- ◆2-channel switching output, with load capacity of 1.2A.
- ◆ Analog output (4~20mA) (optional)

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3 :The technical parameters.

Control range	0~10MPa	Control accuracy	±±0.5%FS
Stability	≤0.2%	Display accuracy	±0.1%FS
Display mode	4-digit digital tube	Display range	-1999~9999
Power supply range	24V±20%	Maximum power consumption	< 3W
Load capacity	<24V1.2A	Leading mode	M12 connector
Protection class	IP65	Switching life	>1,000,000 times
Ambient Temperature	-30°C~70°C	Medium Temperature	-40°C~85°C
Storage Temperature	-20°C~85°C	Relative Humidity	0~80

Installation

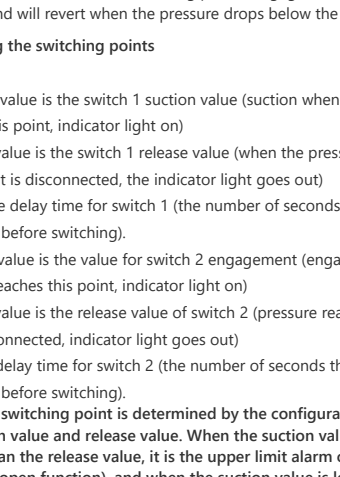
4.1 Mechanical connections:

The pressure hose couplings (DIN 3582 male thread M20X1.5) (other coupling sizes can be specified at the time of ordering) are fitted directly to the hydraulic lines. In critical applications (e.g. severe vibrations or shocks), the pressure fittings can be mechanically decoupled via miniature hoses.

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4.2 Electrical connections:

- 1 Brown: power supply + 2 Blue: power supply -
3 Black: switch 1 4 White: switch 2
5 Gray: 4-20mA



The following should be observed to prevent the effects of electromagnetic interference:

- Keep line connections as short as possible
- Use shielded wires
- Avoid direct proximity to user devices or wiring of electrical and electronic devices that cause interference as much as possible
- If installed with a miniature hose, the housing must be separately grounded.

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5. Setup Functions

5.1 Switching output

Two switching outputs. Each switching output can be programmed with 1 pressure switching point and an opening delay value. The corresponding outputs will switch when the switching point's engagement value is reached and will revert when the pressure drops below the release value.

5.2 Setting the switching points

Code:

AL1H This value is the switch 1 suction value (suction when pressure reaches this point, indicator light on)

AL1F this value is the switch 1 release value (when the pressure reaches this point it is disconnected, the indicator light goes out)

AL1D is the delay time for switch 1 (the number of seconds that must be waited for before switching).

AL2H this value is the value for switch 2 engagement (engagement when pressure reaches this point, indicator light on)

AL2F this value is the release value of switch 2 (pressure reaches this point when disconnected, indicator light goes out)

AL2D the delay time for switch 2 (the number of seconds that must be waited for before switching).

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

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5.3. Error codes

EEoo-----EEPROM data calibration error, mainly detected when powering up and reading data. Manual viewing is required, and the error can be recovered by resetting.

EEo1-----Switch output short circuit. There is an error output off and no longer control. Measures: Eliminate the short circuit, re-power on

EE11----- switch output 1 setting data out of control range. Measure: Modify the data, and automatically return to normal after the data is normalized.

EE22----- switch output 2 setting data out of control range. Measure: Modify the data and it will automatically return to normal after the data is normal.

EEHH----- display overdisplays the maximum value (>9999). Automatic recovery after data normalization

EELL----- shows over-displayed minimum value (<-1999). Automatic recovery after data normalization

If the display blinks and normal measurement data is displayed, the indicates that 1.2 times or -0.1 times the set net range is exceeded.