

# MVDPS Intelligent Differential Pressure Switch

## Features

- High precision
- Adjustable response time
- NPN, PNP compatible, free switching
- Button operation, shortcut button for one-click zero calibration, fast unit switching
- OLED shows the current pressure
- LED for node action, easy to observe

## Applications and industries

- Hydropower
- Chemical industry
- City water supply
- Scientific research
- Accurate measurement and control of pressure of fluids

### Notes:

- 1 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.
- 2 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.
- 3 Strictly follow the wiring method for wiring, otherwise it may cause product damage or other potential faults.
- 4 Misuse of the product may cause danger or personal injury.



## Product overview

MVDPS Intelligent Differential Pressure Switch is an intelligent pressure measurement & control product which integrates pressure measurement, display, output and control. This product is in full-electronic structure. The piezoresistive silicon pressure sensor is adopted in the front end. The output signal is processed by the amplifier with high precision and low temperature drift, and then sent into high precision A/D converter. Through arithmetic processing by microprocessor, the output signal is displayed on site with 2-way switch quantity and 4 ~ 20mA analog quantity, accomplishing the measurement and control for the control system pressure.

This intelligent digital pressure controller has advantages of flexible use, simple operation, easy commissioning and high safety and reliability. It is widely used in hydropower, tap water, petroleum, chemical, mechanical, hydraulic and other industries for the measurement, display and control of pressure of fluid media.

### Notes:

- 1 Do not misuse documentation.
- 2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- 3 Complete installation, operation, and maintenance information is provided in the instructions of the product.
- 4 Misuse of the product may cause danger or personal injury.



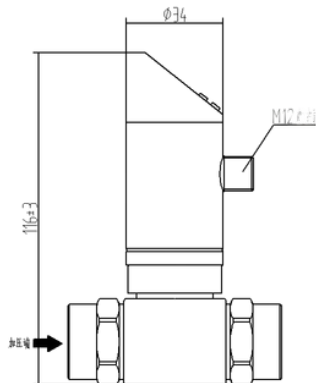
### Performance parameters

Pressure range	0...25 bar
Overload capability	0...0,1 bar 300%FS    0,1...25 bar 200%FS
Accuracy	0.5% FS
Power supply	12...28VDC, (24VDC recommended)
Display mode	OLED display of 4 digits
Output mode	2-way switch quantity, NPN and PNP compatible + 4...20mA
Load capacity	≤24V 1.2A
Power consumption	≤15mA
Operating temp.	-25°C...80°C
Storage temp.	-40°C...100°C
Response time	≤10ms
Insulation	100MΩ/250VDC
Protection grade	IP65

### Structural performance parameters

Housing material	304 SS
Material	Wetted parts 316L, pressure port 304

Dimensions  
In mm



### How to order

MODEL	PROCESS CONNECTION	MEASURING RANGE	SIGNAL OUTPUT
<b>MVDPS</b>	<b>10</b> G ¼" female thread	0...25 bar	<b>AA</b> 4...20 mA
	<b>20</b> G ½" female thread	Write the range as below, Put P for pressure	
	<b>30</b> ½" NPT female thread	Example : P0/0010 = 0-10 bar	<b>AV</b> 0...10 vdc
	<b>YY</b> special		