

MVIPS Series Intelligent 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

MVIPS Intelligent 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.

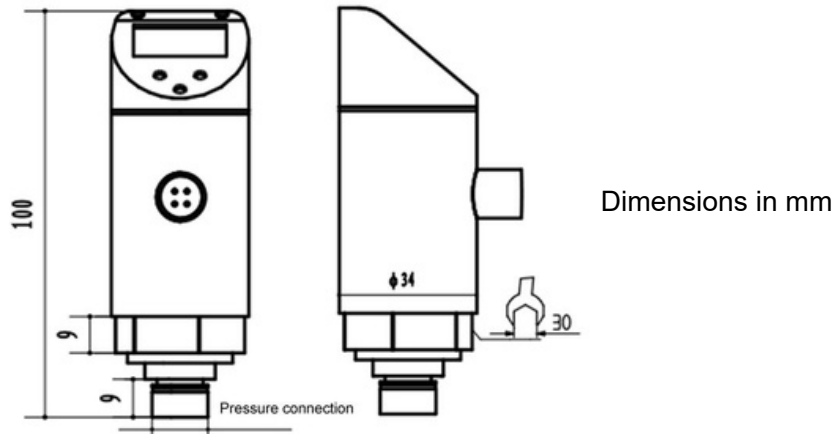
Performance parameters

Pressure range	-1...0 bar 0...400 bar (selectable)
Overload capability	150~300%FS
Accuracy	±0.5%FS
Power supply	12~30V, 24V recommended
Display mode	OLED display of 4 digits
Output mode	4~20mA + NPN and PNP switch
Load capacity	≤15mA
Power consumption	-25°C~80°C
Operating temp.	-40°C~100°C
Storage temp.	≤20ms
Response time	100MΩ/250VDC
Insulation	

Structural performance parameters

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

Outline dimension



How to order

MODEL	PROCESS CONNECTION	MEASURING RANGE	OUTPUT SIGNAL
MVIPS	10 G ¼" male thread	-1...0 bar / 0...400 bar	
	20 G ½" male thread	Enter the range as in the example. Enter V for vacuum	AA 4...20 mA
	30 ½" NPT male thread	Examp. 1: P0/0010 = 0-10 bar Example 2: V-1/0 = -1-0 bar	AV 0...10 vdc
	YY Special		

EXAMPLE: MVIPS-20-P0/0250-AA (G 1/2" male thread, 0...250 bar, 4...20 mA)