

VACUUM Switch

RoHS

Order no.

VP20 C - 01 F1 - C □

① ② ③ ④ ⑤

① Pressure range

- C** - Compound Pressure (-100.0 ~ 100.0 kPa)
- V** - Negative Pressure (-101.3 ~ 0 kPa)
- P** - Positive Pressure (0.000 ~ 1,000MPa)

② Output type

- 01** - 2 NPN output
- 03** - 2 PNP output

③ Pressure Port

- F1** - 1/8 PT
- F2** - 1/8 NPT
- F3** - G1/8"

④ Cable Specification

- Nomark : Lead wire type (2M)
- C** : M8-4 Pin male connector

⑤ Analog output

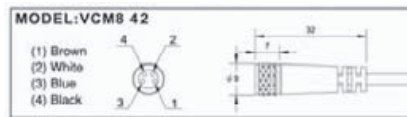
- Nomark : Without analog output
- A*** : Analog output

* Only for wire type



VCM8 4 2 (Female Connector)

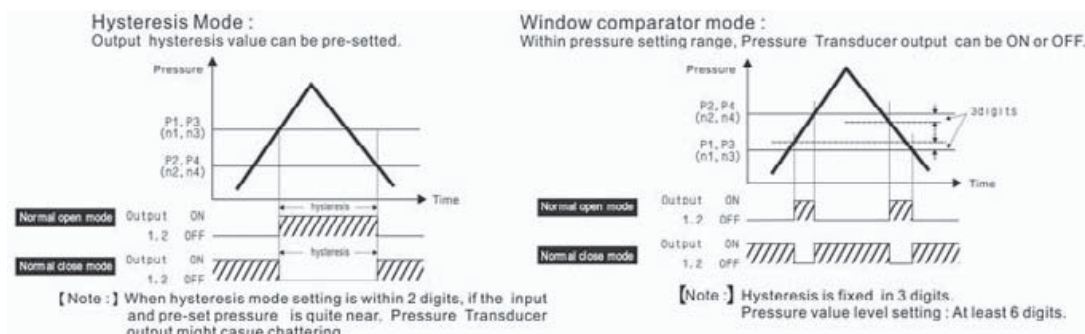
- 2 : 2M Lead wire
- 4 : 4Pin connector
- VCM8 : M8-Female thread connector



Operating specifications

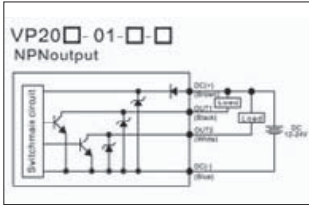
Specifications	Model	VP20C-②-③	VP20V-②-③	VP20P-②-③
Applicable fluid		Non-corrosive gases		
Pressure range		-100.0 ~ 100.0 kPa	0.0~-101.3 kPa	0.000~1,000 MPa
Pressure proof force		500 kPa		1.5 MPa
Indicator resolution		0.1 kPa		0.01 MPa
Weight		135g (with 2m lead wire)		
Material of pressure port		Zn die casting		
Power supply voltage		12~24VDC±10% , Ripple (P-P)10% or less		
Power consumption		55mA or less		
Output		NPN or PNP open collector 2 outputs, Max. 80mA		
Analog output *(Only type VP20□-□-□- A)		Output voltage: 1~5V ≤±5% (within rated pressure range) Linearity:≤±1%F.S	Output voltage: 1~5V ≤±2.5% (within rated pressure range) Linearity:≤±1%F.S	
Repeatability		≤±0.2% F.S, ±1 digit		
Response time		≤2.5ms (chattering-proof fuction: 24ms, 192ms and 768ms selections)		
Protection structure		IP 40		
Operating ambient temperature (°C)		Operation :0~50°C , Storage : -20~60°C (No condensation freezing)		
Operating humidity		35~85% RH		
Temperature characteristic		≤±2% F.S. of detected pressure (25°C) at temp. Range of 0~50°C		
Vibration resistance		Total amplitude 1.5mm, 10Hz-55Hz-10Hz scan for 1minute, two hours each direction of X, Y and Z		
Shock resistance		980m/s ² (100G), 3times each in direction of X, Y and Z		
Hysteresis	Hysteresis mode	Adjustable		
	Window comparator mode	Fixed (3digits)		
Indicator accuracy		≤±2% F.S, ±1digit (ambient temperature : 25±3°C)		
Cable		oil-resistance cable (0.15mm ²)		

Operating mode

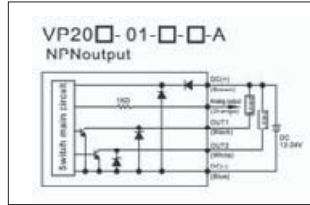


Circuit diagram and examples of connection

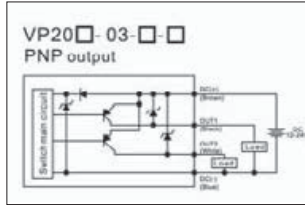
NPN output



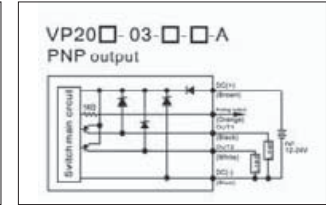
NPN output with analog supply



PNP output

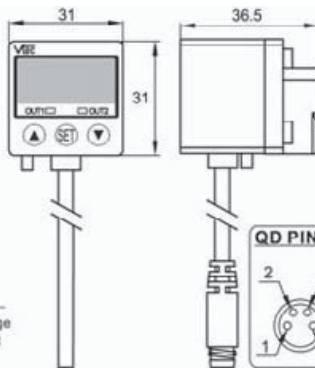
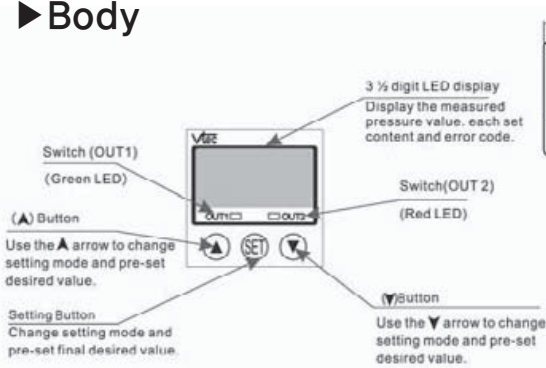


PNP output with analog supply



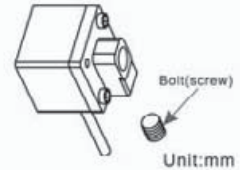
Dimensional information

► Body

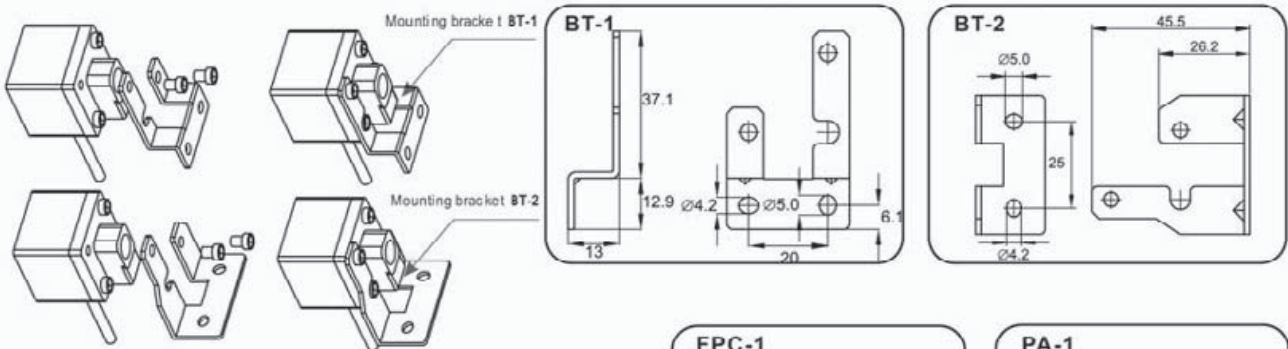


► Installation

1. This product has two inlet pressure ports, select the one most convenient for installation.
2. Please plug the unused inlet port with supplied port plug. Use seal tape to prevent pressure leak.



► Mounting bracket



► Panel type

