



Features

- Pressure range: Compound -100.0~100 kPa
Positive 0~1MPa
Vacuum 0~-101.3kPa.
- Two switch output & one analog output.
- Hysteresis adjustable.
- High accuracy and Resolution.
- Low cost.

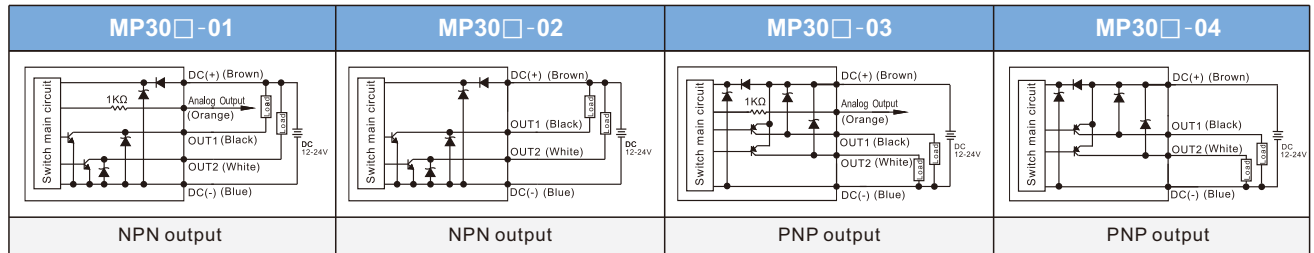
Specification

Model		MP30C (Compound)	MP30V (Vacuum)	MP30P (Positive)
Rated pressure range		- 100.0~100.0 kPa	0.0 ~ - 101.3 kPa	0.000 ~ 1.000 MPa
Operating / Setting pressure range		- 100.0~100.0 kPa	10.0 ~ - 101.3 kPa	- 0.100 ~ 1.000 MPa
Allowable pressure		300 kPa		1.5 MPa
Fluid		Air, Non-corrosive gases, incombustible gases		
Set pressure resolution	KPa	0.1		—
	MPa	—		0.001
	kgf/cm ² , bar	0.001		0.01
	psi	0.01		0.1
	mmHg	1		—
	InHg	0.1		—
	mmH ₂ O	0.1		—
Power supply voltage		12 to 24V DC 10%, Ripple (P-P) 10% or less		
Current consumption		≤ 55mA		
Switch output		NPN or PNP open collector 2 outputs Max. load current : 80mA Max. supply voltage: 30V DC Residual voltage : ≤ 1V (load current 80mA)		
Repeatability(Switch output)		≤ ± 0.2% F.S. ± 1digit		
Hysteresis	Hysteresis mode	Adjustable		
	Window comparator mode	Fixed (3 digits)		
Response time		≤ 2.5ms (chattering-proof function: 24ms, 192ms and 768ms selections)		
Output short circuit protection		Yes		
7 segment LED display		3 1/2 digit LED display (Sampling rate: 5 times/1sec.)		
Indicator accuracy		≤ ± 2% F.S. ± 1 digit (ambient temperature: 25 ± 3°C)		
Indicator		Green LED (OUT1) Red LED (OUT2)		
Analog output <i>*(Only type MP30□-01, MP30□-03)</i>		Output voltage: 1 to 5V ± 5% (within rated pressure range) Linearity: ± 1% F.S.	Output voltage: 1 to 5V ± 2.5% (within rated pressure range) Linearity: ± 1% F.S.	
Environment	Enclosure	IP40		
	Ambient temp. range	Operation: 0 ~ 50°C, Storage: - 20 ~ 60°C (No condensation or freezing)		
	Ambient humidity range	Operation/Storage: 35 ~ 85% RH (No condensation)		
	Withstand voltage	1000VAC in 1-min. (between case and lead wire)		
	Insulation resistance	50M Ω min. (at 500VDC, between case and lead wire)		
	Vibration	Total amplitude 1.5mm, 10Hz-55Hz-10Hz scan for 1 minute, two hours each direction of X, Y and Z		
	Shock	980m/s ² (100G), 3 times each in direction of X, Y and Z		

Specification

Model	MP30C (Compound)	MP30V (Vacuum)	MP30P (Positive)
Temperature characteristic	±2% F.S. of detected pressure (25°C) at temp. Range of 0~50°C		
Port size	F1:R1/8,M5; F2:NPT1/8,M5; F3:G1/8,M5		
Lead wire	Oil-resistance cable (0.15mm ²)		
Weight	Approx 67g (with 2-meter lead wire), Approx 35g (with meter connector)		

Output circuit wiring graph



Order example

MP30C – 01 – F1 – QD

MODEL

PRESSURE PORT

F1: R1/8, M5
F2: NPT1/8, M5
F3: G1/8, M5

CABLE LENGTH /CONNECTOR

Blank: With 2 meter cable
QD: With M8, 4 Pin male connector
(Only type MP30□-02, MP30□-04)

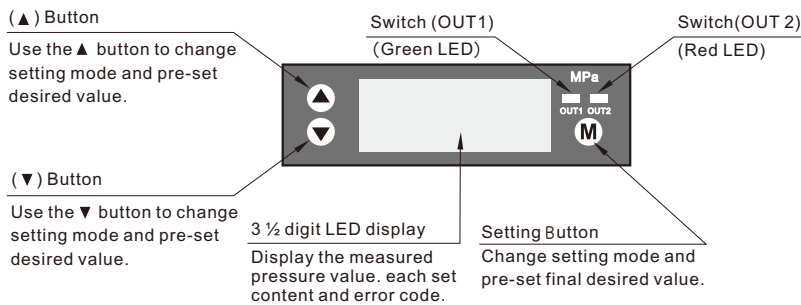
PRESSURE RANGE

C: Compound
(-100.0~100.0 kPa)
V: Vacuum
(10.0~-101.3 kPa)
P: Positive
(-0.10~1.00 Mpa)

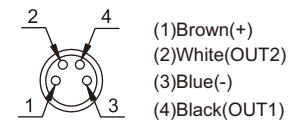
OUTPUT METHOD

01: 2 NPN output & Analog output (1~5V)
02: 2 NPN output
03: 2 PNP output & Analog output (1~5V)
04: 2 PNP output

Unit dimension / Panel instructions



QD Pinout



F1:R1/8, M5
F2:NPT1/8, M5
F3: G1/8, M5

