MP20 / MP25 series

HIGH PRECISION DIGITAL PRESSURE SWITCH





Features

- Pressure range : Compound -100.0~100 kPa Positive 0~1 MPa Vacuum 0~-101.3 kPa.
- Two switch output & one analog output.
- Hysteresis adjustable.
- High accuracy and Resolution.
- Low cost.
- Pressure unit selectable : KPa, MPa, kgf/cm², psi, bar, $mmHg,\ InHg,\ mmH_{\tiny 2}O.$

	Model	MP20/25C (Compound)	MP20/25V (Vacuum)	MP20/25P (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 k	:Pa	1.5 MPa	
Fluid		Air, Non-corrosive gases ,incombustible gases			
Set pressure resolution	KPa	0.1			
	MPa			0.001	
	kgf/cm², bar	0.001		0.01	
	psi	0.001		0.01	
	mmHg	1 —			
	InHg	0.1			
	mmH ₂ O	0.1			
Power supply v	oltage	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: NPN:30V DC, PNP:24V 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		\leq \pm 2% F.S. \pm 1 digit (ambient temperature: 25 \pm 3°C)			
Indicator		Green LED (OUT1) Red LED (OUT2)			
Analog output *(Only type MP20/25□-01, MP20/25□-03)		Output voltage: 1 to $5V\pm5\%$ (within rated pressure range) Linearity: $\pm1\%$ F.S.		Itage: 1 to 5V \pm 2.5% red pressure range) \pm 1% F.S.	
Environment	Enclosure	MP20: IP40 , MP25: IP65			
	Ambient temp. range	Operation: 0 ~ 50℃, Storage:-20 ~ 60℃(No condensation or freezing)			
	Ambient humidity range	Operation/Storage: 35 ~ 85% RH (No condensation)			
	Withstand voltage	1000V AC in 1-min. (between case and lead wire)			
	Insulation resistance	50Mohm 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			
	Shock	980m/s²(100G),3 times each in direction of X,Y and Z			





MP20 / MP25 Dimensions

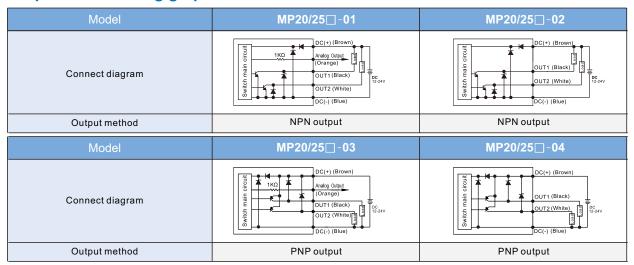


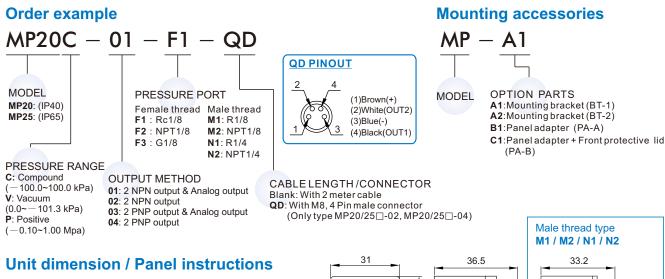
HIGH PRECISION DIGITAL PRESSURE SWITCH

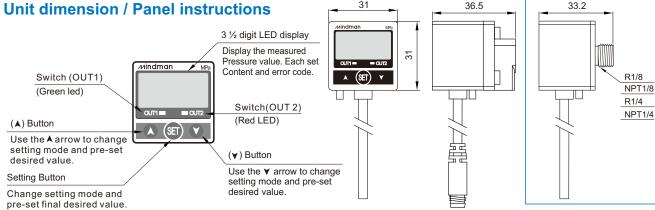
Specification

Model	MP20/25C (Compound)	MP20/25V (Vacuum)	MP20/25P (Positive)
Temperature characteristic	≦2% F.S. of detected pressure (25°C) at temp. Range of 0~50°C		
Lead wire	Oil-resistance cable(0.15mm²)		
Weight	Approx 105g (with 2-meter lead wire), Appro 71g (with meter connector)		

Output circuit wiring graph









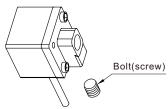
MP20 / MP25 / MP23 Accessory



HIGH PRECISION DIGITAL PRESSURE SWITCH

Installation

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



MP25 Accessory

BT-1

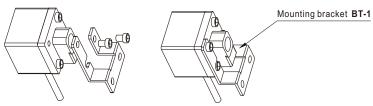


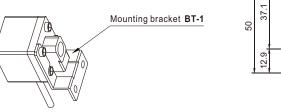
This device must be installed to maintain IP 65(Dust and splash proof) enclosure rating.

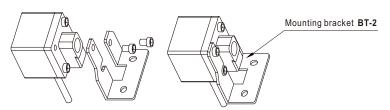
Dustproof protector

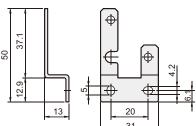
Type of spare parts / Dimension graph

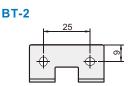
Mounting bracket

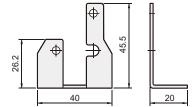




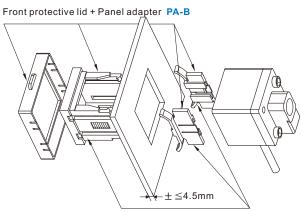








Panel type



Panel adapter PA-A

