

For your safety, please read the following before using.

- Do not use corrosive or flammable gas or liquid with this product.
- Please use within the rated pressure range. Do not apply pressure beyond recommended maximum withstand pressure, permanent damage to the pressure sensor may occur.
- Do not drop, hit or allow excessive shock. Even if switch body appears undamaged, internal components may be broken and can cause malfunction.
- Turn power off before connecting wiring. Wrong wiring or short circuit will damage and / or cause malfunction.
- Do not use in environment containing steam or oil vapor.
- This product is not explosion-proof rated. Do not use in atmosphere containing flammable or explosive gases.
- Wiring for pressure sensor should avoid power source line and high voltage line. If use in the same circuit, noise may cause malfunction.
- Optimal operating conditions: Tube O.D. 6.0 mm, tubing length < 1.5 meter , detection nozzle dimension Ø1.5mm.

A. SPECIFICATIONS			
TYPE		MPGS01-G-02	MPGS01-G-04
Detection distance		0.01 ~ 0.10 mm	
Operating pressure range		250 ~ 350 kPa	
Withstand pressure		600 kPa	
Fluid		Clean air,Non-corrosive/Non-flammable gas (*1)	
Power supply voltage		12 ~ 24V DC ±10%,Ripple(p-p) ≤ 10%	
Current consumption		≤ 20mA	
Switch output		1 NPN : open collector 1 output Max.load current: 125mA Max.supply voltage: 30V DC Residual voltage: ≤ 1.5V	1 PNP : open collector 1 output Max.load current: 125mA Max.supply voltage: 24V DC Residual voltage: ≤ 1.5V
Consumption flow rate		≤ 16 L/min @ 300kPa	
Repeatability		± 5 μm	
Hysteresis		Adjustable 1~30 digits	
Output short circuit protection		Yes	
Display		3 ½ digital, 7 segment LCD display (White) (Sampling rate : 5 times / sec.)	
Switch on indicator		White indicator 1 : OUT1	
Detection nozzle		ø1.5 mm (*2)	
Environment	Enclosure	IP65 (*3)	
	Ambient temp. range	Operation: 0 ~ 50°C, Storage: -10 ~ 60°C (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	≥ 50 MΩ (at 500V DC, between case and lead wire)	
	Vibration	Total amplitude 1.5mm or 10G, 10Hz~55Hz~10Hz scan for 1 minute, 2 hours each direction of X,Y and Z	
	Shock	100 m/s²(10G), 3 times each in direction of X, Y and Z	
Piping specifications	Supply port	Rc1/8" (*4)	
	Detection port		
Lead wire		Ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm²) - 3 cores	
Weight		Approx. 115g (with 2 meter lead wire)	

【NOTE :】

*1. Please use air filter to clean air (5μm or less) and install precision regulator.

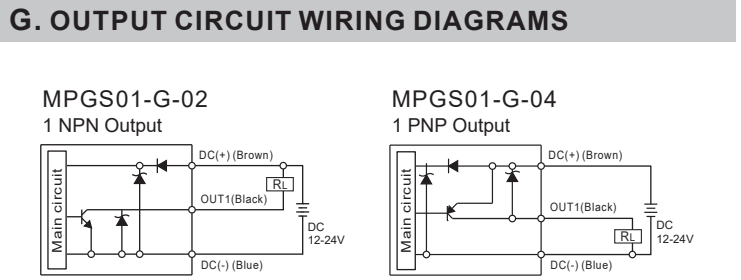
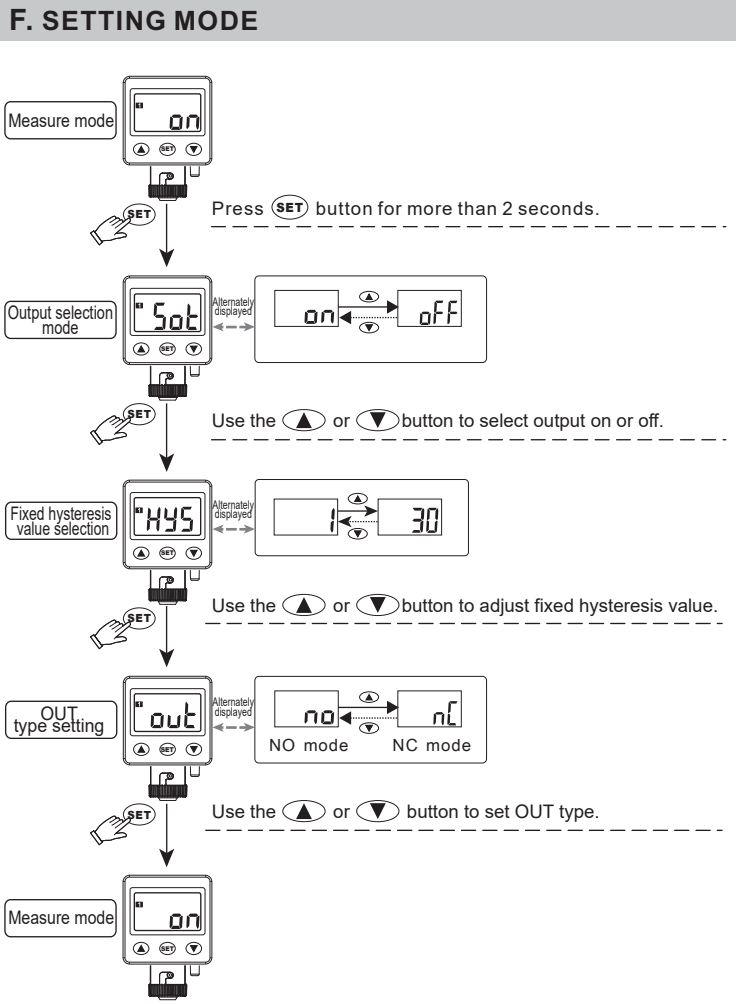
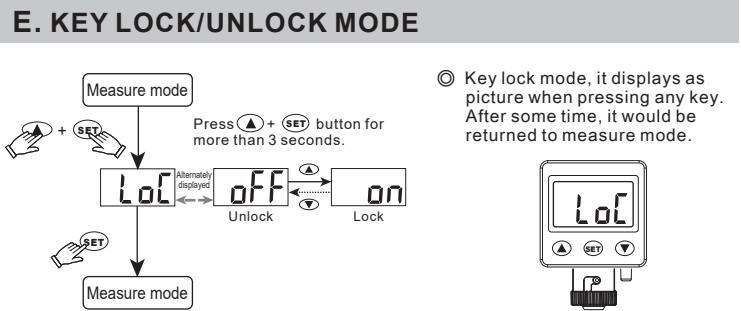
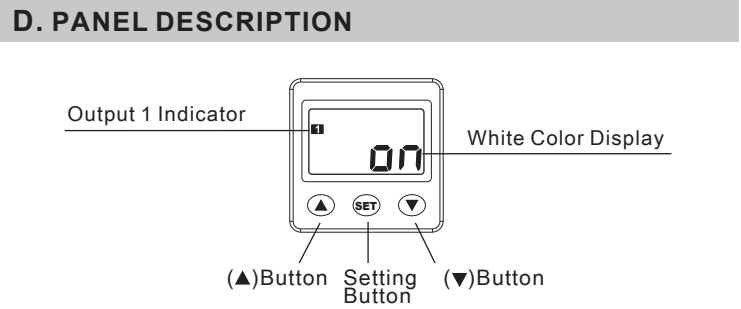
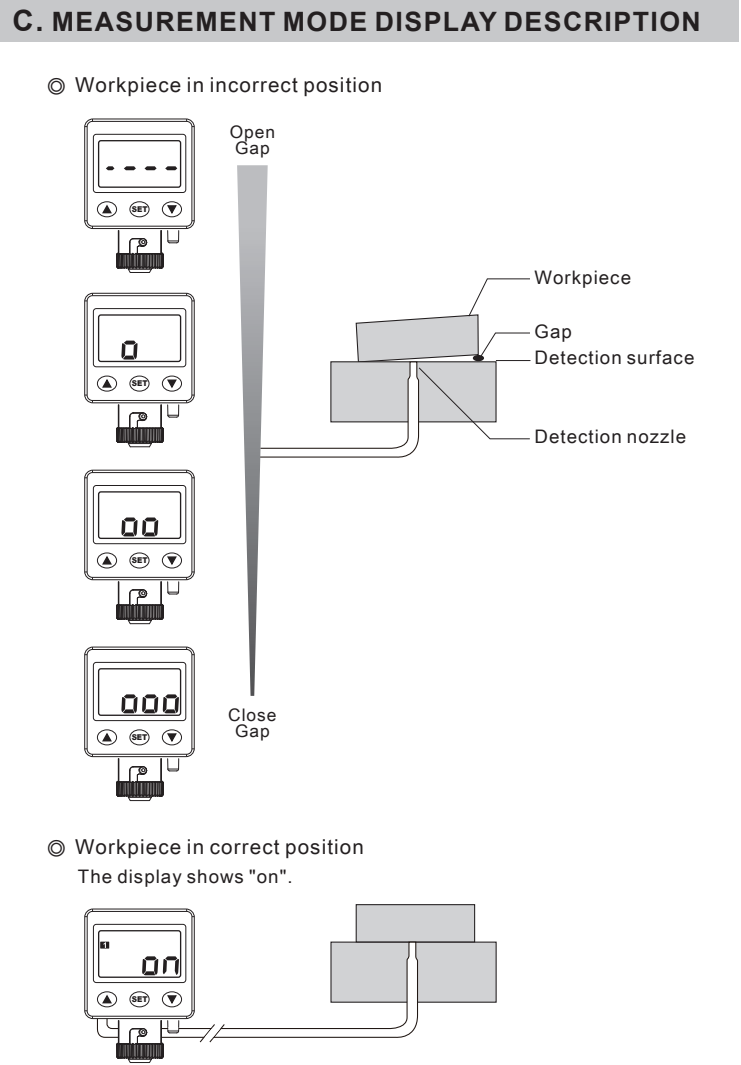
*2. Detection nozzle

*3. Dustproof protector must be installed to maintain IP65.

*4. Back side of product, please refer to product dimension.

B. WORKING POINT SETTING

Press the  +  button at the same time until the "on" is shown, and blink one time then release the buttons to complete working point setting.



H. ORDERING INFORMATION

MPGS01-G-02-F1C

Rated Distance Range

G : 0.01 ~ 0.10 mm

Output Specifications

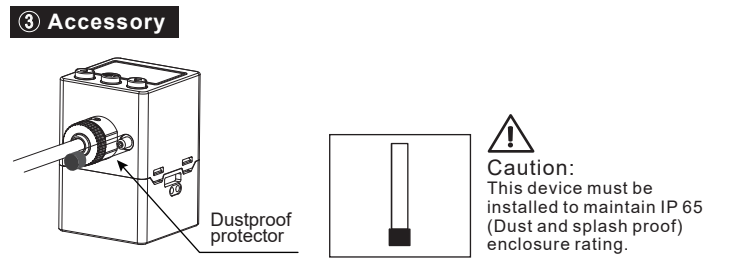
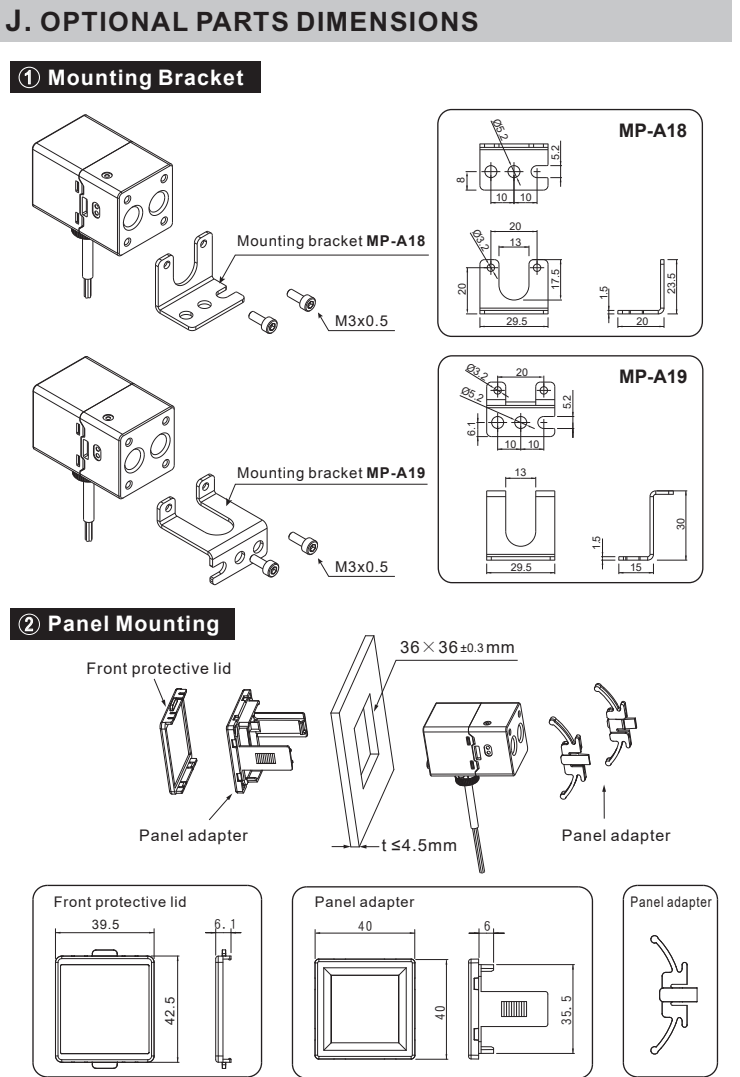
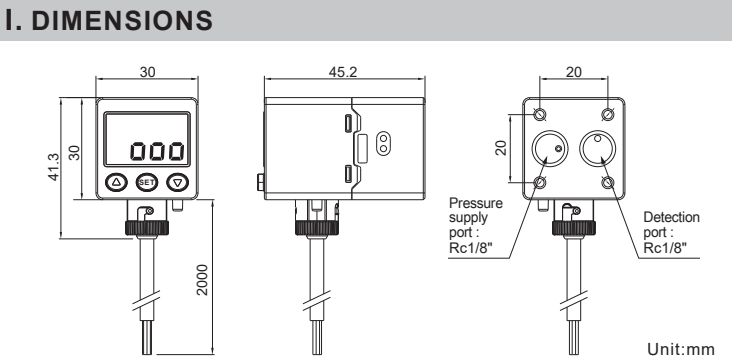
02 : 1 NPN Output
04 : 1 PNP Output

Pressure Port

F1C : Rc1/8"

Optional Parts

MP-A18 : Mounting bracket
MP-A19 : Mounting bracket
MP-B3 : Panel adapter
MP-C3 : Panel adapter + Front protective lid



Error Type	Error code	Error Condition	Troubleshooting
Excess load current error	out Er1	Output load current is more than 125 mA	Turn power off and check the cause of overload current or lower the current load under 125 mA, then restart.
System error	Er5	Internal system error	Turn power off, and then restart. If error condition remains, please return to factory for inspection.
Applied pressure error	Err	Supply pressure is exceed the upper limit of pressure setting.	Adjust the pressure within setting pressure range.