

For your safety, please read the following before using.

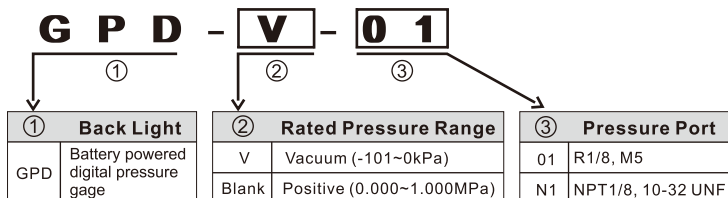
- ① Do not use corrosive or flammable gas or liquid with this product.
- ② Please use within the rated pressure range. Do not apply pressure beyond recommended maximum withstand pressure, permanent damage to the pressure gage may occur.
- ③ Do not drop, hit or allow excessive shock. Even if pressure gage body appears undamaged, internal components may be broken and can cause malfunction.
- ④ Do not use in environment containing steam or oil vapor.
- ⑤ This product is not explosion-proof rated. Do not use in atmosphere containing flammable or explosive gases.
- ⑥ Using filter can extend pressure gage's service life.
- ⑦ Please be sure to use an air release port for the atmosphere, releasing it.

**SPECIFICATIONS**

TYPE		GPD-V-□ (Vacuum)	GPD-□ (Positive)
Rated pressure range		-101 ~ 0kPa	0.000 ~ 1.000MPa
Display pressure range		-101 ~ 10kPa(*3)	-0.100 ~ 1.000MPa(*1)(*2)
Withstand pressure		300kPa	1.5MPa
Applicable fluid		Filtered air, incombustible and non-corrosive gases	
Pressure resolution	kPa	1	—
	MPa	—	0.001
Battery		CR 2032 lithium(*5)	
Battery life		3 year (Display turn on 5 times / day)	
Low-power indicator		Yes	
Battery replaceable		Yes	
Turn-on interval		Display turn off after 60 sec.	
Sampling rate		2 Hz (2 times/sec.)	
Repeatability		≤ ±1% F.S. ±1 digit	≤ ±0.2% F.S. ±1 digit
LCD display		7 segment, 3.5 digit	
Indicator accuracy		≤ ±2% F.S. ±1 digit (ambient temperature: 25 ±3°C)	
Environment	Enclosure	IP65(*4)	
	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)	
	Vibration	Total amplitude 1.5mm or 10G, 10Hz-55Hz-10Hz scan for 1 minute, two hours each direction of X, Y and Z	
	Shock	100m/s <sup>2</sup> (10G), 3 times each in direction of X, Y and Z	
Temperature characteristic		≤ ±2% F.S. of detected pressure (25°C) at temp. range of 0~50°C	
Weight		Approx. 40g	

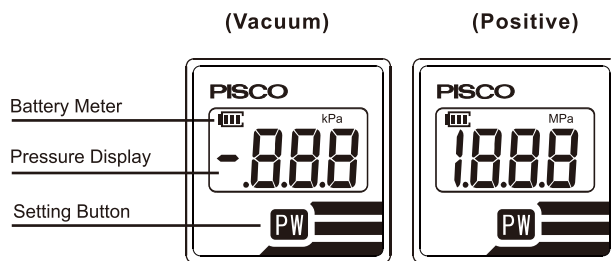
\*1.(GPD-□ Series (Positive)) The display at the time of impressing vacuum pressure will be [figure-1, figure-2].  
 \*2.(GPD-□ Series (Positive)) Display pressure range within -0.1~0MPa is not guaranteed.  
 \*3.(GPD-V-□ Series (Vacuum)) Display pressure range within 10~0kPa is not guaranteed.  
 \*4.Air tube must be installed to maintain IP65. (See section K)  
 \*5.If it is used by the battery besides specification, it will become a fire and a cause of an electric shock.

**ORDERING INFORMATION**

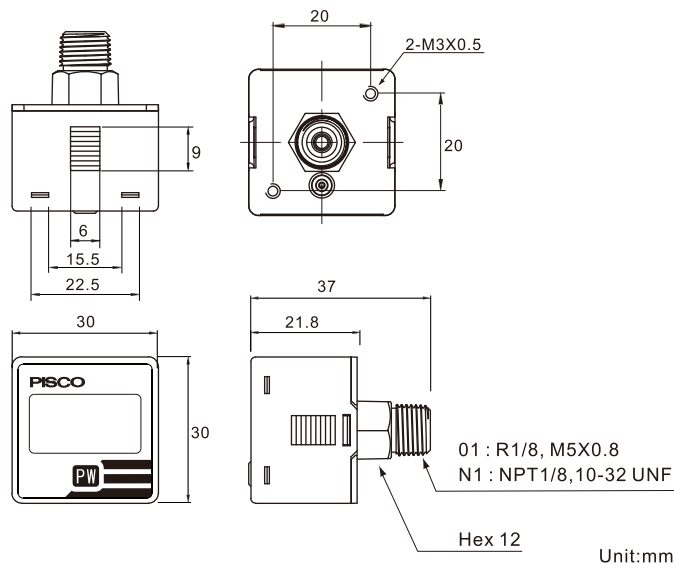


Optional Parts	
ACPG-31-B1	Mounting bracket
ACPG-31-B2	Mounting bracket
ACPG-31-P1	Panel adapter (PA-3+PA-4)
ACPG-31-P2	Panel adapter + Front protective lid (PA-3+PA-4+FPC-2)

**PANEL DESCRIPTION**



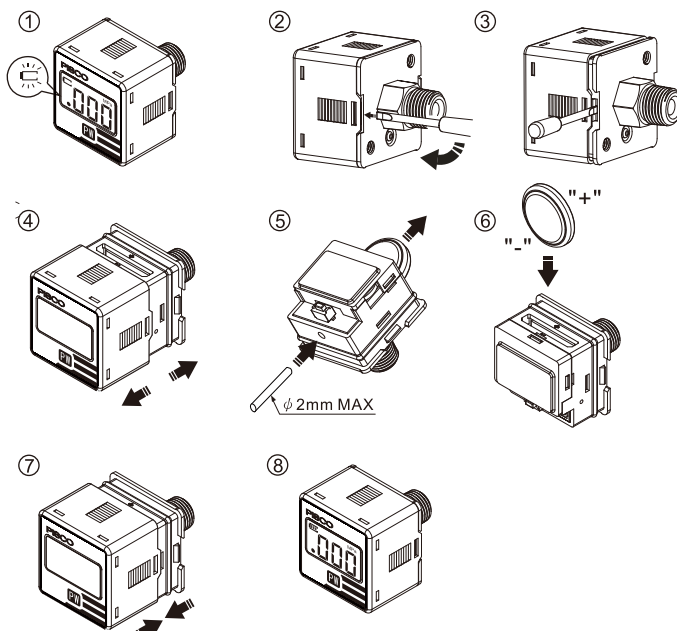
**DIMENSIONS**



**BATTERY STATUS / INSTALLATION**

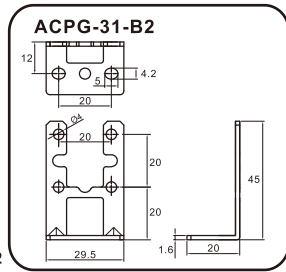
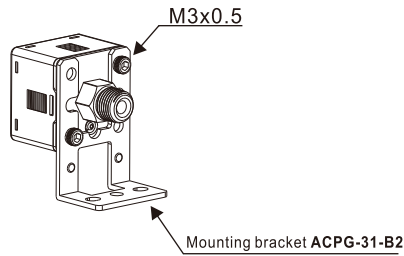
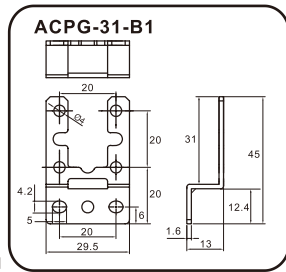
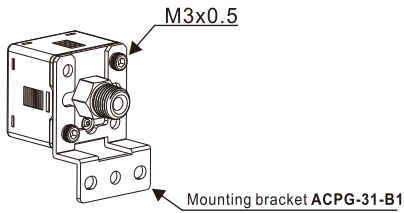
**FOLLOW THE STEPS BELOW**

- Using a flat screwdriver size 1.4 ~ 3.0 mm insert into the back of the pressure gage as pictured. (See figure ②)
  - Turn the screwdriver horizontally 90° to separate the case and the base. Repeat this process again for the other side. (See figure ③)
  - Carefully remove the outer cover (See figure ④), and follow the diagrams below to replace battery and reassembly. Incorrect battery installation will cause malfunction.
- ※Battery exchanging work is a thing of the cautions to invasion of dust and a foreign substance.  
 ※A pressure display unit and a zero point return to a factory-shipments value after battery exchange.  
 Again, please redo a pressure display unit setup and a zero point setup.

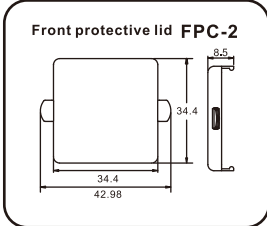
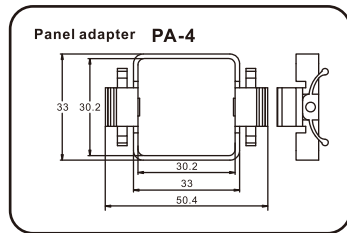
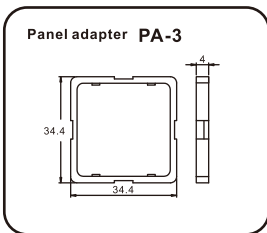
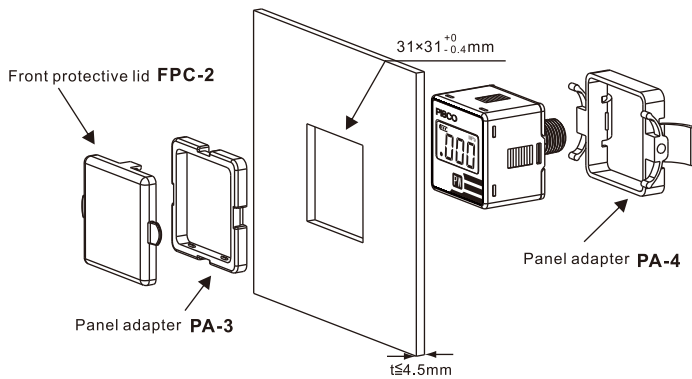


## OPTIONAL PARTS DIMENSIONS

### ① Mounting bracket



### ② Panel mount ACPG-31-P1/P2



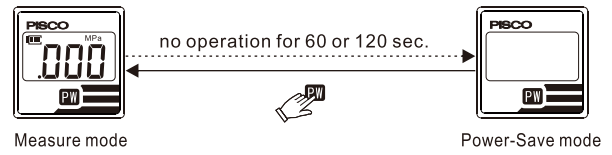
Unit:mm

## PRESSURE UNIT CONVERSION TABLE

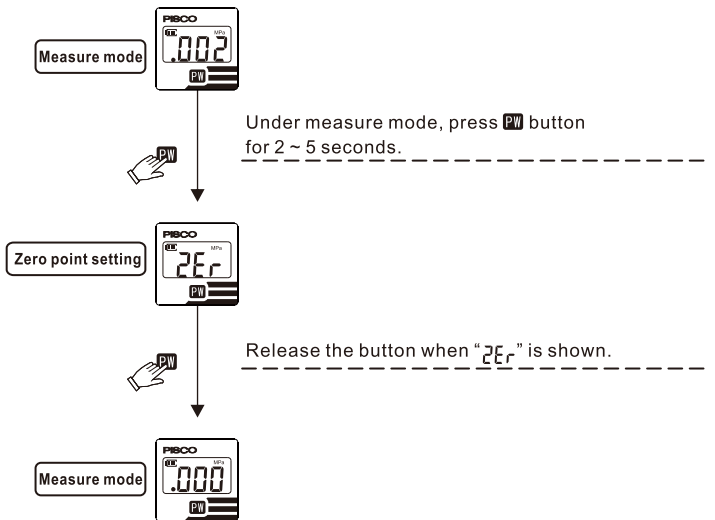
From	To	kPa	MPa	kgf/cm <sup>2</sup>	mmHg	psi	bar
1 kPa		1	0.001000	0.010197	7.500616	0.145038	0.010000
1 MPa		1000	1	10.197	7500.616	145.038	10
1 kgf/cm <sup>2</sup>		98.0665	0.0980665	1	735.559	14.2233	0.980665
1 mmHg		0.13332	0.000133	0.0013595	1	0.019336	0.0013332
1 psi		6.895	0.006895	0.07031	51.7157	1	0.06895
1 bar		100.0000	0.100000	1.01972	750.062	14.5038	1

## POWER-SAVE MODE

- ⊙ The pressure gage will enter power saving mode if the **PW** button is not pressed within 60 sec.
- ⊙ In measure mode, press the **PW** button to extend display for 120 sec.



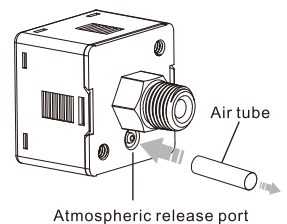
## ZERO POINT RESET



- \* Please perform zero point adjustment after making a pressure supply port into an air patulous state.

## DUST AND SPLASH ENVIRONMENT

- To maintain IP65, please insert an air tube (O.D.: 4mm) into atmospheric release port and pipe the other end away from dust / spattering liquid environment.
- Use proper air tube dimension of O.D.: 4mm, I.D.: 2.5mm, and the length is depending on the user's environment.



## ERROR CODE INSTRUCTION

Error Type	Error code	Error Condition	Troubleshooting
Residual pressure error	Err	During zero reset, ambient pressure is over ±3% F.S.	Change input pressure to ambient pressure and perform zero reset again.
Applied pressure error	HHH	Supply pressure is exceeds the upper limit of pressure setting.	Adjust the pressure within operating pressure range.
	LLL	Supply pressure is exceeds the lower limit of pressure setting.	
Battery error	bAt	When battery level is under 2.40V, the battery symbol and bAt will flash 4 times then enter power save mode.	Replace battery.

NIHON PISCO CO., Ltd. OVERSEAS MARKETING TEAM  
3884-1, MINAMIMINOWA, KAMIINA, NAGANO-PREF., 399-4588 TEL +81-(0)265-76-7751  
FAX +81-(0)265-76-3305