Thank you for purchasing this product.

1. Special Conditions for Safe Use

⚠ **Warning** identifies conditions and procedures that are dangerous to the user.

⚠ **Caution** identifies conditions and procedures that can cause damage to the Product or the equipment under test.

⚠ Warning

To prevent injury, only assemble and operate high-pressure systems if you know the correct safety procedures.
High-pressure liquids and gases are hazardous and the energy from them can be released without warning.

To prevent possible electrical shock, fire, or personal injury:

- Read all safety Information before you use the Product.
- Use the Product only as specified, or the protection supplied by the Product can be compromised.
- Do not use the Product around explosive gas, vapor, or in damp or wet environments.
- Do not use and disable the Product if it is damaged.
- Remove the batteries if the Product is not used for an extended period of time, or if stored in temperatures above 70 ℃. If the batteries are not removed, battery leakage can damage the Product.
- Replace the batteries when the low battery indicator shows to prevent incorrect measurements.
- The battery door must be closed and locked before you operate the Product.

⚠ Caution

To prevent possible damage to Product or to equipment under test:
- The display flicker when the pressure source is above the Product range limit. The pressure source must immediately be removed.
- Do not apply more than the maximum torque specified. Maximum torque specified is 20 Nm = 15 ft-lb.

2. Special Conditions for Safe Use

A. Misuse

If the Product is exposed to overpressure or sudden physical shock (such as being dropped) examine it for damage that can cause a safety issue. If necessary, send the Product for examination to PDK. Refer to below to contact PDK.

⚠Warning
To prevent possible fire, or personal injury:
- Do not use the Product with flammable substances.
- The Product is intended for installation only in locations with protection against the entry of solid unwanted objects or water that can compromise safety.

B. Maintenance
How to Clean the Product
Clean the Product with a soft cloth dampened with water or water and weak soap.

⚠Caution
To prevent possible damage to the Product, do not use solvents or abrasive cleansers.

⚠Caution
For safe operation and maintenance of the product:
- Repair the Product before use if the battery leaks.
- Remove batteries to prevent battery leakage and damage to the Product if it is not used for an extended period.
- Be sure that the battery polarity is correct to prevent battery leakage.
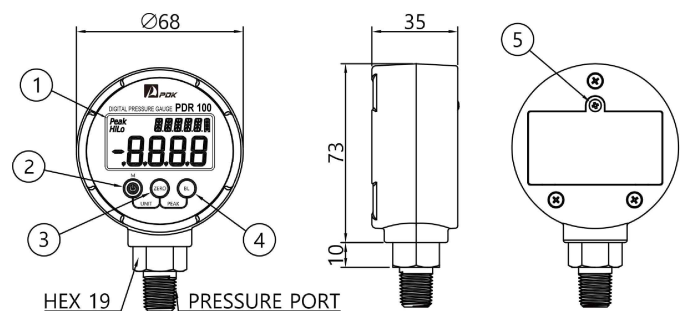- Have an approved technician repair the Product.

3. Model Information

PDR100 - Range 1 2 - Port	
Range	0 to 10 MPa (User defined Range)
1	K=kPa, M=MPa
2	G=Gauge
Port	C=PT 1/4", P=PF 1/4"
Ex) PDR100-10MG-C	Range 10 MPa, Gauge Pressure, 1/4" PT

4. Specification

Pressure Range	0 ~ 100 kPa ... 10 MPa (Gauge)
Accuracy	±0.5%FS ± 1digit
Thermal Effect on Zero	±0.05%FS /℃
Thermal Effect on Span	±0.05%FS /℃
Compensation Range	-10 ~ 50℃
Workable Range	-20 ~ 70℃
Display	±2000 Backlight LCD
Power Requirement	9V Battery 1 ea
Display Speed	1, 2, 5, 7, times/ second
Special Function	Peak, Auto power off, Auto Zero
Allowable Pressure	X1.5
Burst pressure	X2
Pressure Port	R(PT)1/4", G(PF)1/4"
Material of Pressure Port	SS316L, VITION
Weight	160g

5. Size and Front-Panel Features

HEX 19   PRESSURE PORT

① Display : Digital pressure display

② (⏻) : Power / Menu key
  - Turn On/Off the power
  - Push the key for 2 seconds to go to Menu mode.

③ (ZERO) : Zero / Up key
  - Push the key for 2 seconds set zero.
  - Clear Peak(Hi/Low) values in Peak mode.
  - Using Up key when menu set.

④ (BL) : Display backlight/ Enter key
  - Display backlight turn On/Off.
  - Using Enter key when menu set.

⑤ Captive screw on the battery door :
  Use a Phillips screwdriver to loosen the captive screw on the battery door then remove the battery door to replace battery.

6. How to setup the product

A. Setup

① Push ⏻ key on front panel to power on.
② Function set up can set in PV mode or Menu mode.
③ Push ⏻ key for 2 seconds to go to Menu mode in PV mode and push ⏻ key again to move the menu.

B. Menu Setup

① Auto Zero	PV mode

Zeros the display.

To Zeros the display, push ZERO key for 2 seconds in PV mode.
Open pressure port to atmosphere to set zero.
※ Available to set zero when pressure value is within ±10% of Full scale.

② Engineering Units	PV mode

Changes engineering units.

To change Engineering units (bar, mbar, psi, kPa, MPa, mmH$_2$O, mmHg, inHg, kgf/cm^2, atm), push ⏻ and ZERO keys together in PV mode.
※ When display range is over, automatically changed and showed next unit.

③ Display Backlight	PV mode

Display backlight turn On / Off.

To turn on Display backlight BL key in PV mode. Push again to adjust brightness and turn off.

④ Peak	PV mode

Minimum and maximum pressure values indicates.

Push ZERO and BL keys together to show maximum value (Hi). Push again to show minimum value (Lo) indication then push again to go to PV mode.
※ To clear max min values, push ZERO key again to go to PV mode.

⑤ Overpressure Alarm	PV mode

Pressure value flickered when overpressure.

When entry is above the upper limit (110%) of allowable range, pressure value flickered.
※ To prevent possible damage to product, do not apply pressure source that it is above the range limit.

⑥ Sample Rate	Menu mode (Push ⏻ key for 2 seconds)

Set sample rate.

Push ZERO key to set sample rate.

1-S : 1 sample/second
2-S : 2 samples/second
5-S : 5 samples/second
7-S : 7 samples/second
10-S : 10 samples/second

Push BL key to move next Menu mode.
Select YES to go to PV mode when END mode.

⑦ Auto Power Off	Menu mode (Push ⏻ key for 2 seconds)

Set auto power off.

Push ZERO key to set Auto power off.

Auto power off time

5-m : 5 minutes
10-m : 10 minutes
20-m : 20 minutes
30-m : 30 minutes

Push BL key to move next Menu mode.
Select YES to go to PV mode when END mode.

⑧ Factory Reset	Menu mode (Push ⏻ key for 2 seconds)

Set initial factory set values.

Double push ZERO key to go to factory reset menu.
Push BL key to set initial factory set values.

Initial factory setting
Sample rate: 2 samples/second
Zero: Initial factory set zero value
Unit: Initial factory set unit
Auto power off - OFF

Push BL key to move END mode.
Select YES to go to PV mode when END mode.

⑨ End Menu	Menu mode (Push ⏻ key for 2 seconds)

Finished menu setup then move to PV mode.

Push ZERO key to move PV mode or Menu mode.

YES : Push BL or ⏻ to move PV mode
NO : Push BL or ⏻ to move Menu mode