



# PDR1000

## DIGITAL PRESSURE GAUGE

### “Digital Pressure Test Gauge of Best Performance”

PDK produced **PDR1000** with PDK's unique pressure calibration technology and production that has best performance in its class. PDR1000 is digital pressure gauge for precise pressure measurement and test with Built-in various features. QR code has been applied for traceability of the product.

- Simple button touch for various function setting change and unit change
- Durable die-cast outer case
- Range: 0 to 15 kPa ~ Max 500 MPa
- Accuracy:  $\pm 0.025\%$  F.S (-10 to 50 °C Temperature)
- Convenient to read and large 5-digit display
- Quick and easy to change the 10 of pressure unit
- RS232 Communication, Analog Output
- Pressure switch test, Peak, Min/Max, Alarm and etc functions

Combine Pressure comparator or hand pump for using pressure calibrator in field and calibration lab for simple pressure measurement and calibration provides an excellent solution.

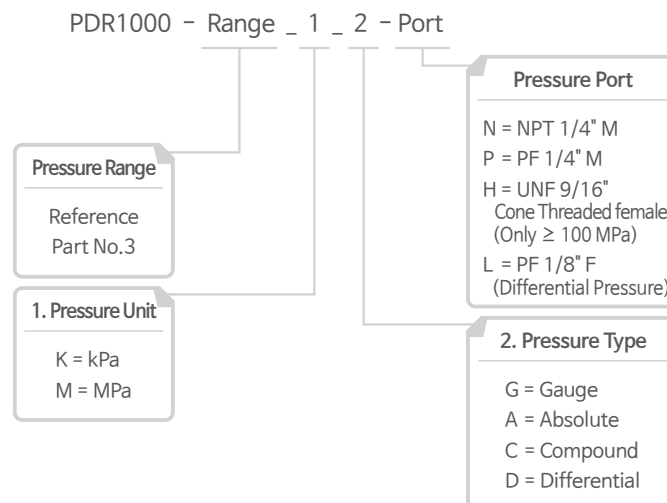
- Field and laboratory calibration of the pressure gauge
- Process precision pressure measurement for outdoors and plant.
- Over pressure and explosion test
- Pressure safety valve (PSV) test
- Pressure valve and Regulator test
- Pipeline static pressure test
- Substitute Chart Recorder
- Filter performance test & Leaks test
- Available to use Analog output when external power use
- RS232 Communication
- 3 years Warranty
- CE Certificated

- Peak function
- External Hold function
- Min/Max function
- Alarm electronic contact function
- Pressure switch test function (NO/NC Cable option)
- Data logging function
- Auto-Off function
- RS232 Communication (Default 19200 bps set)
- Calibration function (Zero, Span)
- Analog output function (Use external power)
- Backlight On/Off
- Auto-Zero function
- Available to use external power (Power supply adaptor option)
- Indicate Overpressure function
- Use QR code for traceability management for product

01 Specification

Pressure Range	0 ~ 15 kPa ... 500 MPa (Gauge)
	0 ~ 100 kPa ... 7 MPa (Absolute)
	± 15 kPa, -100 kPa ~ 100 ... 3.5 MPa (Compound)
	± 100 Pa ... ± 100 kPa (Differential)
Accuracy	Gauge : ±0.025% F.S or ±0.1% of reading
	Absolute, Compound, Differential: ±0.05% F.S
	(Included Nonlinearity, Hysteresis, Repeatability, errors for -10 ~ 50 °C Temperature range)
Over Pressure limit	150 % of full scale
Bust Pressure	200 % of full scale, 150 MPa range is 200 MPa
Pressure Unit	kPa, MPa, kgf/cm <sup>2</sup> , psi, mbar, bar, inHg, inH <sub>2</sub> O, mmH <sub>2</sub> O, mmHg
Workable Temperature Range	-20 ~ 70 °C
Storage Temperature Range	-30 ~ 80 °C
Temperature Compensated Range	-10 ~ 50 °C
RS232 Communication	Provided Commands in manual, Available to use private communication cable (Option)
Power Requirement	AA Alkaline battery 3 ea, External power supply (Option), Hours of battery use approximately 1000 hours
Media of Use	Gas & Liquid (Use Gas only under 100 kPa Range)
Display	5 Digits, Backlight On/Off, Auto Off
Display Speed	3 times / Second (10 times automatic change if use Peak function)
Analog Output	0 - 5 VDC (Must use external power supply), 0.1% Accuracy
	(Option : 4 - 20 mA , 0 - 5 VDC , 0 - 10 VDC)
Pressure Port	NPT 1/4", PF 1/4",
	UNF 9/16" Cone Threaded (HF4/AF250C, Only ≥ 100 MPa)
	PF 1/8" Female (Differential)
Data Logging	1 time / 1, 3, 5, 30, 60 second, Store Max 3000 data
Size	Dia. 110 mm x 38 mm , 150 mm Included Pressure Port
Weight	530 g

02 Order Information



Ex) PDR1000-70MG-N Range 70 MPa, Gauge Pressure, 1/4" NPT

\*\* Available to customized for Pressure Range, Pressure Unit, Pressure Port.

# SOLUTION FOR PRESSURE MEASUREMENT & CALIBRATION

## 03 Pressure Type & Range

Gauge Pressure						
Part No.	Pressure Range		Accuracy		Media	Burst Pressure
	SI Unit	bar	of Full Scale	of Reading		
15KG	15 kPa	150 mbar	0.025 %	0.1 %	gas	10 times
35KG	35 kPa	350 mbar	0.025 %	0.1 %	gas	10 times
100KG	100 kPa	1 bar	0.025 %	0.1 %	gas / liquid	5 times
200KG	200 kPa	2 bar	0.025 %	0.1 %	gas / liquid	5 times
350KG	350 kPa	3.5 bar	0.025 %	0.1 %	gas / liquid	5 times
700KG	700 kPa	7 bar	0.025 %	0.1 %	gas / liquid	5 times
2MG	2 MPa	20 bar	0.025 %	0.1 %	gas / liquid	5 times
3.5MG	3.5 MPa	35 bar	0.025 %	0.1 %	gas / liquid	5 times
7MG	7 MPa	70 bar	0.025 %	0.1 %	gas / liquid	5 times
10MG	10 MPa	100 bar	0.025 %	0.1 %	gas / liquid	3 times
20MG	20 MPa	200 bar	0.025 %	0.1 %	gas / liquid	3 times
25MG	25 MPa	250 bar	0.025 %	0.1 %	gas / liquid	3 times
35MG	35 MPa	350 bar	0.025 %	0.1 %	gas / liquid	3 times
40MG	40 MPa	400 bar	0.025 %	0.1 %	gas / liquid	3 times
60MG	60 MPa	600 bar	0.025 %	0.1 %	gas / liquid	2 times
70MG	70 MPa	700 bar	0.025 %	0.1 %	gas / liquid	2 times
100MG	100 MPa	1000 bar	0.025 %	0.1 %	gas / liquid	2 times
150MG	150 MPa	1500 bar	0.025 %	0.1 %	gas / liquid	1.5 times
250MG	250 MPa	2500 bar	0.05 %	0.1 %	gas / liquid	1.2 times
400MG	400 MPa	4000 bar	0.1 %	n/a	gas / liquid	1.2 times
500MG	500 MPa	5000 bar	0.1 %	n/a	gas / liquid	1.2 times

Absolute Pressure						
Part No.	Pressure Range		Accuracy		Media	Burst Pressure
	SI Unit	bar	of Full Scale	of Reading		
100KA	100 kPa a	1 bar	0.05 %	n/a	gas / liquid	5 times
200KA	200 kPa a	2 bar	0.05 %	n/a	gas / liquid	5 times
350KA	350 kPa a	3.5 bar	0.05 %	n/a	gas / liquid	5 times
700KA	700 kPa a	7 bar	0.05 %	n/a	gas / liquid	5 times
2MA	2 MPa a	20 bar	0.05 %	n/a	gas / liquid	5 times
3.5MA	3.5 MPa a	35 bar	0.05 %	n/a	gas / liquid	5 times
7MA	7 MPa a	70 bar	0.05 %	n/a	gas / liquid	5 times

Compound Pressure						
Part No.	Pressure Range		Accuracy		Media	Burst Pressure
	SI Unit	bar	of Full Scale	of Reading		
15KC	± 15 kPa	± 150 mbar	0.025 %	0.1 %	gas	5 times
35KC	± 35 kPa	± 350 mbar	0.025 %	0.1 %	gas	5 times
100KC	± 100 kPa	± 1 bar	0.05 %	n/a	gas / liquid	5 times
200KC	-100 to 200 kPa	-1 to 2 bar	0.05 %	n/a	gas / liquid	5 times
350KC	-100 to 350 kPa	-1 to 3.5 bar	0.05 %	n/a	gas / liquid	5 times
700KC	-100 to 700 kPa	-1 to 7 bar	0.05 %	n/a	gas / liquid	5 times
2MC	-0.1 to 2 MPa	-1 to 20 bar	0.05 %	n/a	gas / liquid	5 times
3.5MC	-0.1 to 3.5 MPa	-1 to 35 bar	0.05 %	n/a	gas / liquid	5 times

03 Pressure Type & Range

Differential Pressure						
Part No.	Pressure Range		Accuracy		Media	Burst Pressure
	SI Unit	mbar	of Full Scale	of Reading		
± 0.1KD	± 100 Pa	± 1 mbar	0.05 %	n/a	gas	200 times
± 0.25KD	± 250 Pa	± 2.5 mbar	0.05 %	n/a	gas	100 times
± 1KD	± 1 kPa	± 10 mbar	0.05 %	n/a	gas	50 times
± 2.5KD	± 2.5 kPa	± 25 mbar	0.05 %	n/a	gas	30 times
± 2KD	± 7.5 kPa	± 75 mbar	0.05 %	n/a	gas	15 times
± 15KD	± 15 kPa	± 150 mbar	0.05 %	n/a	gas	15 times
± 35KD	± 35 kPa	± 350 mbar	0.05 %	n/a	gas	5 times
± 100KD	± 100 kPa	± 1000 mbar	0.05 %	n/a	gas	5 times
0.1KD	100 Pa	1 mbar	0.05 %	n/a	gas	200 times
0.25KD	250 Pa	2.5 mbar	0.05 %	n/a	gas	100 times
1KD	1 kPa	10 mbar	0.05 %	n/a	gas	50 times
2.5KD	2.5 kPa	25 mbar	0.05 %	n/a	gas	30 times
2KD	7.5 kPa	75 mbar	0.05 %	n/a	gas	15 times
15KD	15 kPa	150 mbar	0.05 %	n/a	gas	15 times
35KD	35 kPa	350 mbar	0.05 %	n/a	gas	5 times
100KD	100 kPa	1000 mbar	0.05 %	n/a	gas	5 times

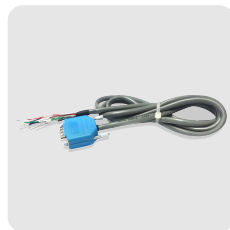
04 Option



External Power Adaptor



Analog Output + RS232C  
+ Power Adaptor



Multifunctional Cable



Panel Mounted Bracket



Software



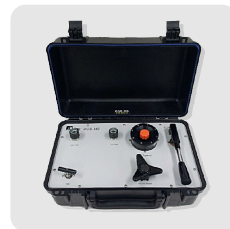
Pneumatic Hand Pump  
(Model : 700PTP-1)



Low Pressure Hand Pump  
(Model : 700LTP-1)



Hydraulic Hand Pump  
(Model : 700HTP-2)



Portable Hydraulic Pressure  
Generator / controller  
(Model : PCS-HC)



Portable Pneumatic Pressure  
Generator / controller  
(Model : PCS-PC)

\*\* Specifications subject to change



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