



# PDR250

## Digital Pressure Gauge

*'0.25 % Accuracy Portable Pressure Gauge'*

Portable digital pressure gauge **PDR250** has 0.25% FS accuracy, using battery for measuring pressure. It has multiple functions are equipped and using for precision pressure measurement and test purpose.

**PDR250** can uses any liquid or gas for media that compatible with 316L Stainless Steel and it has durable aluminum die-cast outer case with Class IP65 water proof for suitable to various measurement environment.

- Range : 0 to 5000 bar
- Accuracy :  $\pm 0.25\%$  or  $\pm 0.5\%$  F.S
- Convenient to read and large display
- Back Light Display
- Durable die-cast outer case
- Quick and easy to change the pressure unit
- Min / Max Measurements
- Small size for easy install
- Class IP65 Water-proof

- Peak function
- Auto-Off function
- Factory Initialization function
- Backlight On/Off
- Calibration function
- Field and Test laboratory Calibration of the pressure gauge
- Process precision pressure measurement for outdoors and plant.
- Pressure valve and Regulator test
- Leaks test

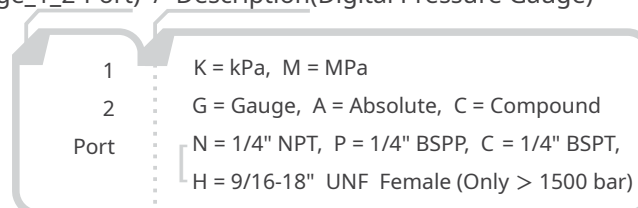


## 01 Specification

Pressure Range	0 ~ 350 mbar ... 700 bar (Gauge)	0 ~ 710 ... 5000 bar (Gauge)
	-1 bar ~ 1 ... 35 bar (Compound)	
	0 ~ 350 mbar ... 700 bar (Absolute)	
	±1000 mbar ... 1000 mbar (Differential)	
Accuracy	±0.25 % F.S ± 1 digit	±0.5 % F.S ± 1 digit
Thermal Effect on Zero	±0.03% F.S / °C	±0.05% F.S / °C
Thermal Effect on Span	±0.03% F.S / °C	±0.05% F.S / °C
Compensation Range	-10 ~ 50 °C	
Workable Range	-20 ~ 70 °C	
Display	4 1/2 Digits Backlight LCD	
Power Requirement	1.5V (AAA size) Alkaline battery 3 ea	
Display Speed	1, 2, 5, 7, 10 times / second	
Special Function	Unit Conversion, Peak, Auto power off, Auto Zero	
Allowable Pressure	X3 or 1400 bar (Whichever is less)	≤1500 bar : X1.5 or 1500 bar (Whichever is less)
		>1500 bar : X1.5 or 5000 bar (Whichever is less)
Burst Pressure	X4 or 2100 bar (Whichever is less)	≤1500 bar : X2 or 1500 bar (Whichever is less)
		>1500 bar : X2 or 6000 bar (Whichever is less)
Pressure Port	1/4" BSPP, 1/4" BSPT, 1/4" NPT, 9/16" UNF Female (Only > 1500 bar)	
Material of Pressure Port	SS316L	SS316L, Ti 87%
Waterproof	IP 65	
Size	Dia. 80 mm x 38 mm , 120 mm Included Pressure Port	
Weight	350 g	

## 02 Order Information

Model(PDR250-Range\_1\_2-Port) / Description(Digital Pressure Gauge)



Ex) PDR250-70MG-N → Range 700 bar, Gauge Pressure, 1/4" NPT



03 Pressure Type & Range

Gauge Pressure					
Part No.	Pressure Range		Accuracy of Full Scale	Media	Burst Pressure
	SI Unit	bar			
35KG	35 kPa	350 mbar	0.25 %	gas	4 times
100KG	100 kPa	1 bar	0.25 %	gas / liquid	4 times
200KG	200 kPa	2 bar	0.25 %	gas / liquid	4 times
350KG	350 kPa	3.5 bar	0.25 %	gas / liquid	4 times
700KG	700 kPa	7 bar	0.25 %	gas / liquid	4 times
2MG	2 MPa	20 bar	0.25 %	gas / liquid	4 times
3.5MG	3.5 MPa	35 bar	0.25 %	gas / liquid	4 times
7MG	7 MPa	70 bar	0.25 %	gas / liquid	4 times
20MG	20 MPa	200 bar	0.25 %	gas / liquid	4 times
35MG	35 MPa	350 bar	0.25 %	gas / liquid	4 times
70MG	70 MPa	700 bar	0.25 %	gas / liquid	4 times
100MG	100 MPa	1000 bar	0.5 %	gas / liquid	2 times
150MG	150 MPa	1500 bar	0.5 %	gas / liquid	1.5 times
250MG	250 MPa	2500 bar	0.5 %	gas / liquid	1.2 times
400MG	400 MPa	4000 bar	0.5 %	gas / liquid	1.2 times
500MG	500 MPa	5000 bar	0.5 %	gas / liquid	1.2 times

Absolute Pressure					
Part No.	Pressure Range		Accuracy of Full Scale	Media	Burst Pressure
	SI Unit	bar			
100KA	100 kPa a	1 bar	0.25 %	gas / liquid	4 times
200KA	200 kPa a	2 bar	0.25 %	gas / liquid	4 times
350KA	350 kPa a	3.5 bar	0.25 %	gas / liquid	4 times
700KA	700 kPa a	7 bar	0.25 %	gas / liquid	4 times
2MA	2 MPa a	20 bar	0.25 %	gas / liquid	4 times
3.5MA	3.5 MPa a	35 bar	0.25 %	gas / liquid	4 times
7MA	7 MPa a	70 bar	0.25 %	gas / liquid	4 times
20MA	20 MPa a	200 bar	0.25 %	gas / liquid	4 times
35MA	35 MPa a	350 bar	0.25 %	gas / liquid	4 times
70MA	70 MPa a	700 bar	0.25 %	gas / liquid	4 times

Compound Pressure					
Part No.	Pressure Range		Accuracy of Full Scale	Media	Burst Pressure
	SI Unit	bar			
35KC	±35 kPa	±350 mbar	0.25 %	gas	4 times
100KC	±100 kPa	±1 bar	0.25 %	gas / liquid	4 times
200KC	-100 to 200 kPa	-1 to 2 bar	0.25 %	gas / liquid	4 times
350KC	-100 to 350 kPa	-1 to 3.5 bar	0.25 %	gas / liquid	4 times
700KC	-100 to 700 kPa	-1 to 7 bar	0.25 %	gas / liquid	4 times
2MC	-0.1 to 2 MPa	-1 to 20 bar	0.25 %	gas / liquid	4 times
3.5MC	-0.1 to 3.5 MPa	-1 to 35 bar	0.25 %	gas / liquid	4 times



04 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	0.25 %	n/a	gas	200 times
±0.25KD	±250 Pa	±2.5 mbar	0.25 %	n/a	gas	100 times
±1KD	±1 kPa	±10 mbar	0.25 %	n/a	gas	50 times
±2.5KD	±2.5 kPa	±25 mbar	0.25 %	n/a	gas	30 times
±7.5KD	±7.5 kPa	±75 mbar	0.25 %	n/a	gas	15 times
±15KD	±15 kPa	±150 mbar	0.25 %	n/a	gas	15 times
±35KD	±35 kPa	±350 mbar	0.25 %	n/a	gas	5 times
±100KD	±100 kPa	±1000 mbar	0.25 %	n/a	gas	5 times
0.1KD	100 Pa	1 mbar	0.25 %	n/a	gas	200 times
0.25KD	250 Pa	2.5 mbar	0.25 %	n/a	gas	100 times
1KD	1 kPa	10 mbar	0.25 %	n/a	gas	50 times
2.5KD	2.5 kPa	25 mbar	0.25 %	n/a	gas	30 times
7.5KD	7.5 kPa	75 mbar	0.25 %	n/a	gas	15 times
15KD	15 kPa	150 mbar	0.25 %	n/a	gas	15 times
35KD	35 kPa	350 mbar	0.25 %	n/a	gas	5 times
100KD	100 kPa	1000 mbar	0.25 %	n/a	gas	5 times

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