



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 IP66 water proof for suitable to various measurement environment.

- Range : -1 ~ 0.001 ... 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 IP66 Water-proof
- CE Certificated

- 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

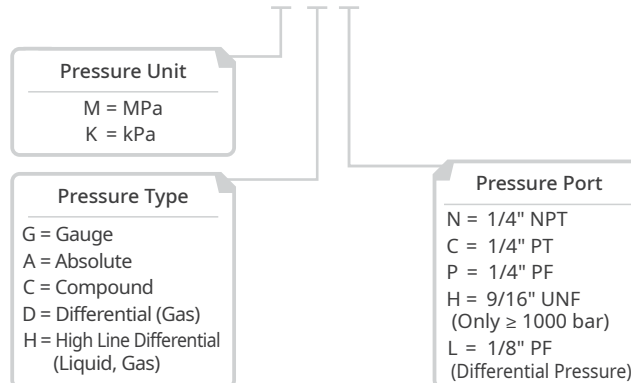


01 Specification

Pressure Range	0 ~ 150 mbar ... 5000 bar (Gauge)	0 ~ 710 ... 5000 bar (Gauge)
	0 ~ 1 bar ... 70 bar (Absolute)	
	±350 mbar, -1 bar ~ 1 ... 35 bar (Compound)	
	±1 mbar ... ±1000 mbar, -1 ~ 35 bar (Differential)	
Accuracy	±0.25 % F.S ± 1 digit	±0.5 % F.S or ±0.8 % 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
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	
Over Pressure Limit	Refer to below range table	
Burst Pressure		
Pressure Unit	mbar, bar, kPa, MPa, kgf/cm ² , psi, inHg, inH ₂ O, mmH ₂ O, mmHg	
Pressure Port	1/4" PF, 1/4" PT, 1/4" NPT, 9/16" UNF Female (Only > 1000 bar)	
Material of Pressure Port	SS316L	SS316L, Ti 87%
Waterproof	IP 66	
Size	Dia. 80 mm x 38 mm , 120 mm Included Pressure Port	
Weight	350 g	

02 Order Information

Ex) PDR250 - 70 M G N (PDR250-70MGN)





03 Pressure Type & Range

Gauge Pressure

Part No.	Pressure Range		Accuracy of Full Scale	Media	Over Pressure limit	Burst Pressure
	SI Unit	bar				
35KG	35 kPa	350 mbar	0.25 %	gas	3 times	4 times
100KG	100 kPa	1 bar	0.25 %	gas / liquid	3 times	4 times
200KG	200 kPa	2 bar	0.25 %	gas / liquid	3 times	4 times
350KG	350 kPa	3.5 bar	0.25 %	gas / liquid	3 times	4 times
700KG	700 kPa	7 bar	0.25 %	gas / liquid	3 times	4 times
2MG	2 MPa	20 bar	0.25 %	gas / liquid	3 times	4 times
3.5MG	3.5 MPa	35 bar	0.25 %	gas / liquid	3 times	4 times
7MG	7 MPa	70 bar	0.25 %	gas / liquid	3 times	4 times
20MG	20 MPa	200 bar	0.25 %	gas / liquid	2 times	4 times
35MG	35 MPa	350 bar	0.25 %	gas / liquid	2 times	4 times
70MG	70 MPa	700 bar	0.25 %	gas / liquid	2 times	4 times
100MG	100 MPa	1000 bar	0.5 %	gas / liquid	1.5 times	2 times
150MG	150 MPa	1500 bar	0.5 %	gas / liquid	1.1 times	1.5 times
250MG	250 MPa	2500 bar	0.5 %	gas / liquid	1.1 times	1.2 times
400MG	400 MPa	4000 bar	0.8 %	gas / liquid	1.1 times	1.2 times
500MG	500 MPa	5000 bar	0.8 %	gas / liquid	1.1 times	1.2 times

Absolute Pressure

Part No.	Pressure Range		Accuracy of Full Scale	Media	Over Pressure limit	Burst Pressure
	SI Unit	bar				
100KA	100 kPa a	1 bar	0.25 %	gas / liquid	3 times	4 times
200KA	200 kPa a	2 bar	0.25 %	gas / liquid	3 times	4 times
350KA	350 kPa a	3.5 bar	0.25 %	gas / liquid	3 times	4 times
700KA	700 kPa a	7 bar	0.25 %	gas / liquid	3 times	4 times
2MA	2 MPa a	20 bar	0.25 %	gas / liquid	3 times	4 times
3.5MA	3.5 MPa a	35 bar	0.25 %	gas / liquid	3 times	4 times
7MA	7 MPa a	70 bar	0.25 %	gas / liquid	3 times	4 times
20MA	20 MPa a	200 bar	0.25 %	gas / liquid	2 times	4 times
35MA	35 MPa a	350 bar	0.25 %	gas / liquid	2 times	4 times
70MA	70 MPa a	700 bar	0.25 %	gas / liquid	2 times	4 times

Compound Pressure

Part No.	Pressure Range		Accuracy of Full Scale	Media	Over Pressure limit	Burst Pressure
	SI Unit	bar				
35KC	±35 kPa	±350 mbar	0.25 %	gas	3 times	4 times
100KC	±100 kPa	±1 bar	0.25 %	gas / liquid	3 times	4 times
200KC	-100 to 200 kPa	-1 to 2 bar	0.25 %	gas / liquid	3 times	4 times
350KC	-100 to 350 kPa	-1 to 3.5 bar	0.25 %	gas / liquid	3 times	4 times
700KC	-100 to 700 kPa	-1 to 7 bar	0.25 %	gas / liquid	3 times	4 times
2MC	-0.1 to 2 MPa	-1 to 20 bar	0.25 %	gas / liquid	3 times	4 times
3.5MC	-0.1 to 3.5 MPa	-1 to 35 bar	0.25 %	gas / liquid	3 times	4 times



04 Pressure Type & Range

Differential Pressure							
Part No.	Pressure Range		Accuracy		Media	Over Pressure limit	Burst Pressure
	SI Unit	mbar	of Full Scale	of Reading			
±0.1KD	±100 Pa	±1 mbar	0.25 %	n/a	gas	200 times	400 times
±0.25KD	±250 Pa	±2.5 mbar	0.25 %	n/a	gas	100 times	200 times
±1KD	±1 kPa	±10 mbar	0.25 %	n/a	gas	40 times	60 times
±2.5KD	±2.5 kPa	±25 mbar	0.25 %	n/a	gas	20 times	30 times
±7.5KD	±7.5 kPa	±75 mbar	0.25 %	n/a	gas	6 times	25 times
±15KD	±15 kPa	±150 mbar	0.25 %	n/a	gas	3 times	15 times
±35KD	±35 kPa	±350 mbar	0.25 %	n/a	gas	3 times	5 times
±100KD	±100 kPa	±1000 mbar	0.25 %	n/a	gas	3 times	5 times
0.1KD	100 Pa	1 mbar	0.25 %	n/a	gas	200 times	400 times
0.25KD	250 Pa	2.5 mbar	0.25 %	n/a	gas	100 times	200 times
1KD	1 kPa	10 mbar	0.25 %	n/a	gas	40 times	60 times
2.5KD	2.5 kPa	25 mbar	0.25 %	n/a	gas	20 times	30 times
7.5KD	7.5 kPa	75 mbar	0.25 %	n/a	gas	6 times	25 times
15KD	15 kPa	150 mbar	0.25 %	n/a	gas	3 times	15 times
35KD	35 kPa	350 mbar	0.25 %	n/a	gas	3 times	5 times
100KD	100 kPa	1000 mbar	0.25 %	n/a	gas	3 times	5 times

Differential Pressure (High Line: max. 7 MPa line pressure)							
Part No.	Pressure Range		Accuracy		Media	Over Pressure limit	Burst Pressure
	SI Unit	mbar	of Full Scale	of Reading			
±7KH	±7 kPa	±70 mbar	0.25 %	n/a	gas/Liquid	10 times	12 times
±35KH	±35 kPa	±350 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
±100KH	±100 kPa	±1000 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
±200KH	-100~200 kPa	-1000~ 2000 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
±350KH	-100~350 kPa	-1000~ 3500 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
±700KH	-100~700 kPa	-1000~ 7000 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
±2MH	-100 kPa~2 MPa	-1000~20000 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
±3.5MH	-100 kPa~3.5 MPa	-1000~35000 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
7KH	7 kPa	70 mbar	0.25 %	n/a	gas/Liquid	10 times	12 times
35KH	35 kPa	350 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
100KH	100 kPa	1000 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
200KH	200 kPa	2000 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
350KH	350 kPa	3500 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
700KH	700 kPa	7000 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
2MH	2 MPa	20000 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times
3.5MH	3.5 MPa	35000 mbar	0.25 %	n/a	gas/Liquid	3 times	4 times