

Euro gauge

Safety pattern type pressure gauge

Model : P257 series

Spec. sheet no. PD02-12

Service intended

P257 series are made with a solid plate wall and a blow-out back. Its stainless steel case and cover have a good appearance. It has the excellent proof against corrosion and chemical attack.



Nominal diameter

63, 100 and 160 mm

Accuracy

P2572 (63 mm) : ± 1.6 % of full scale

P2574 (100 mm) and P2576 (160 mm) : ± 0.5 % of full scale
 ± 1.0 % of full scale

Scale range (MPa, kPa, bar)

63 mm : $-0.1 \sim 0$ to $0 \sim 100$ MPa

100 and 160 mm : $-0.1 \sim 0$ to $0 \sim 200$ MPa

Working pressure

Steady : 75 % of full scale (63 mm)

100 % of full scale (100 and 160 mm)

Over range protection : 130 % of full scale

Working temperature

Ambient : $-40 \sim 65$ °C

$-20 \sim 65$ °C (With glycerin filling)

$-40 \sim 65$ °C (With silicone filling)

Fluid : Max. 200 °C

Max. 100 °C (With glycerin filling)

Max. 100 °C (With silicone filling)

Degree of protection

EN60529/IEC529/IP67

Temperature effect

Accuracy at temperature above and below the reference temperature (20 °C) will be effected by approximately ± 0.4 % per 10 °C of full scale



Standard features

Pressure connection

Stainless steel (316SS)

Element

Stainless steel (316SS)

63 mm : <6 MPa : C type bourdon tube

≥ 6 MPa : Helical type bourdon tube

100 and 160 mm : <10 MPa : C type bourdon tube

≥ 10 MPa : Helical type bourdon tube

Case

Stainless steel (304SS)

Cover

Stainless steel (304SS)

Bayonet type

Blowout protection

Solid front

Blow-out back

Window

Laminated safety glass

Movement

Stainless steel

Dial

White aluminium with black graduations

Pointer

Black painted aluminium alloy

Process connection

63 mm : $\frac{1}{8}$ ", $\frac{1}{4}$ " PT, NPT and PF

100 and 160 mm : $\frac{1}{4}$ ", $\frac{1}{2}$ ", $\frac{3}{8}$ " PT, NPT and PF

Certificates

ATEX II 2G Ex h IIC T6...T1 Gb

ATEX II 2D Ex h IIIC T85°C....T450°C Db

Option

Zero adjustable pointer

(Only available with diameter 100 and 160 mm)

Zero adjustment (External) : 100 and 160 mm

Pressure connection and element : Monel

(Only available with diameter 100 and 160 mm)

WISE[®]

1. Base model**P257** Safety pattern type pressure gauge**2. Nominal diameter (mm)**

- 2** 63
4 100
6 160

3. Type of mounting

- A** Bottom connection, direct
C Bottom connection, surface, cover mounting plate, not available with diameter 63 mm
G Lower back connection, direct, not available with diameter 160 mm
M Lower back connection, flush, case center mounting bracket, not available with diameter 160 mm
N Lower back connection, flush, cover mounting plate, not available with diameter 160 mm

4. Accuracy

- 2** ±0.5 % of full scale. not available with diameter 63 mm, not available with range 0.4 and 0.5 bar
3 ±1.0 % of full scale. not available with diameter 63 mm
4 ±1.6 % of full scale. only available with diameter 63 mm

5. Process connection

- B** 1/8"
C 1/4"
D 3/8", not available with diameter 63 mm
E 1/2", not available with diameter 63 mm

6. Connection type

- B** PF
C PT
D NPT
F BSPT
G BSP(G)

7. Unit

- H** bar
I MPa
J kPa
Z Other

8. Range**XXX** Refer to pressure unit and range table**9. Pressure connection material dial color**

- 3** 316SS and 2 colors
4 316L SS and 2 colors
7 316SS and 3 colors
8 316L SS and 3 colors
Z Monel

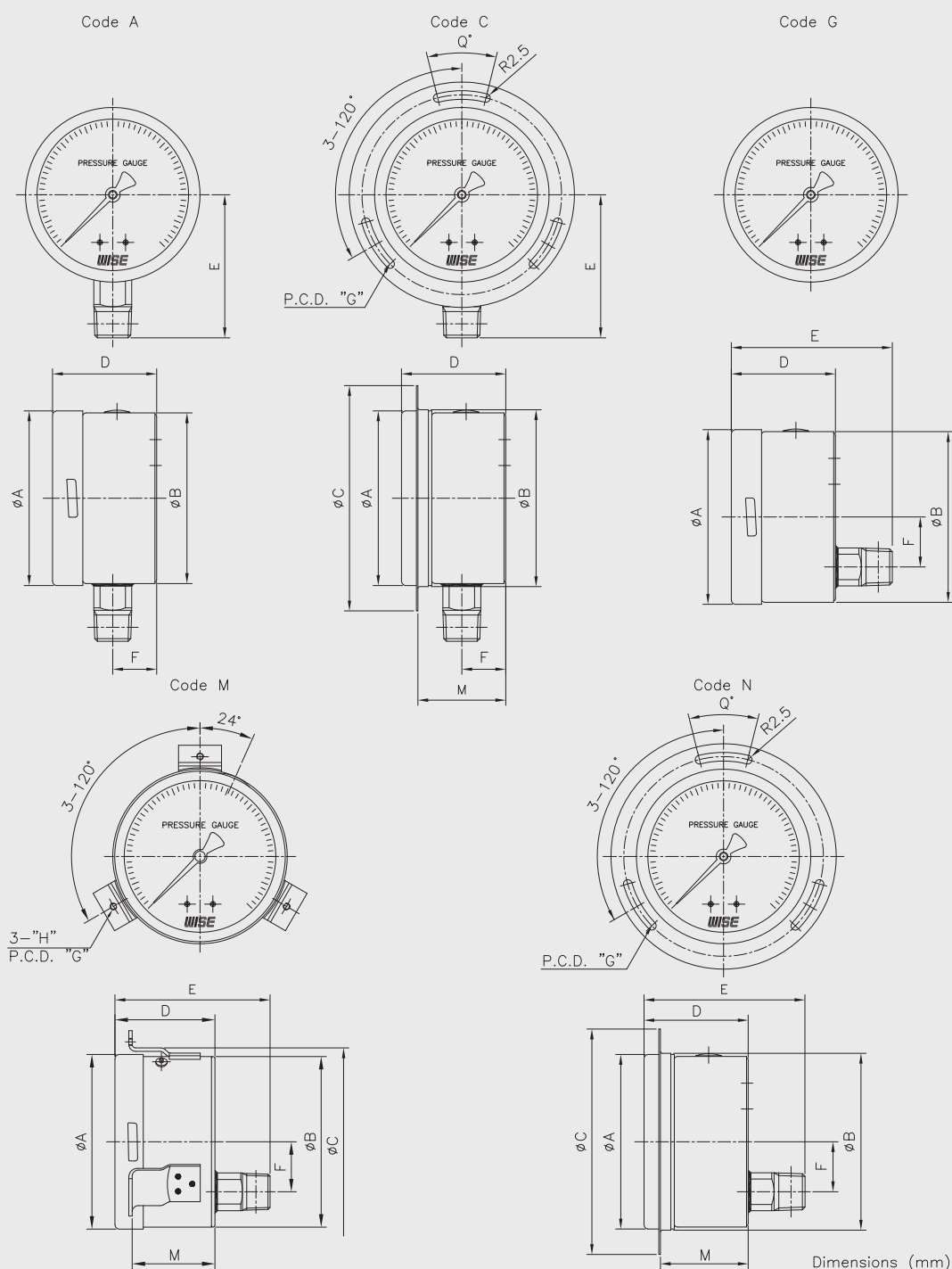
10. Option

- 0** None
1 Accessories
8 Silicone filling
9 Glycerin filling

Sample ordering code

1	2	3	4	5	6	7	8	9	10
P257	4	A	3	C	D	H	XXX	3	9

P257 : Type of mounting



Dial size	Available code	A	B	C	D		E		F		M		G	H	Q
					S.T.D	External	S.T.D	External	S.T.D	External	S.T.D	External			
63	A	64	62		42.5	-	61	-	17.2	-					
	G	64	62		42.5	-	70	-	16.7	-					
	M	64	62	68	42.5	-	70	-	16.7	-	34	-	75	M3X0.5	
	N	64	66	68	42.5	-	70	-	16.7	-	36.5	-	75		
100	A	101.3	99		59	61	88		25.5	27.5					
	C	101.3	103.1	130.5	59	61	88		25.5	27.5	53.5	55.5	116		28
	G	101.3	99		59	61	98.5	100.5	29						
	M	101.3	99	108	59	61	98.5	100.5	29		48	50	116	M4X0.7	
160	N	101.3	103.1	130.5	59	61	98.5	100.5	29		53.5	55.5	116		28
	A	160.8	159.6		62	-	113	113	25.6	-					
	C	160.8	164	196	62	-	113	-	25.6	-	57	-	178		18

Pressure unit and range table

Range and code	Unit and code			Nominal diameter		
	H : bar	I : MPa	J : kPa	63 mm	100 mm	160 mm
026	-1 ~ 0	-0.1 ~ 0	-100 ~ 0	O	O	O
123	0 ~ 0.4	0 ~ 0.04	0 ~ 40	X	O	Δ
040	0 ~ 0.5	0 ~ 0.05	0 ~ 50	X	O	Δ
041	0 ~ 1	0 ~ 0.1	0 ~ 100	O	O	O
133	0 ~ 1.6	0 ~ 0.16	0 ~ 160	X	O	O
042	0 ~ 2	0 ~ 0.2	0 ~ 200	O	O	O
134	0 ~ 2.5	0 ~ 0.25	0 ~ 250	X	O	O
043	0 ~ 3	0 ~ 0.3	0 ~ 300	O	O	O
044	0 ~ 4	0 ~ 0.4	0 ~ 400	O	O	O
045	0 ~ 6	0 ~ 0.6	0 ~ 600	O	O	O
047	0 ~ 10	0 ~ 1	X	O	O	O
050	0 ~ 15	0 ~ 1.5	X	O	O	O
143	0 ~ 16	0 ~ 1.6	X	O	O	O
051	0 ~ 20	0 ~ 2	X	O	O	O
052	0 ~ 25	0 ~ 2.5	X	O	O	O
054	0 ~ 35	0 ~ 3.5	X	O	O	O
151	0 ~ 40	0 ~ 4	X	O	O	O
055	0 ~ 50	0 ~ 5	X	O	O	O
056	0 ~ 60	0 ~ 6	X	O	O	O
057	0 ~ 70	0 ~ 7	X	O	O	O
058	0 ~ 100	0 ~ 10	X	O	O	O
059	0 ~ 150	0 ~ 15	X	O	O	O
060	0 ~ 160	0 ~ 16	X	O	O	O
062	0 ~ 250	0 ~ 25	X	O	O	O
064	0 ~ 350	0 ~ 35	X	O	O	O
065	0 ~ 400	0 ~ 40	X	O	O	O
066	0 ~ 500	0 ~ 50	X	O	O	O
067	0 ~ 600	0 ~ 60	X	O	O	O
068	0 ~ 700	0 ~ 70	X	O	O	O
070	0 ~ 1,000	0 ~ 100	X	O	O	O
074	0 ~ 1,600	0 ~ 160	X	X	O	O
075	0 ~ 2,000	0 ~ 200	X	X	O	O
006	-1 ~ 0.6	-0.1 ~ 0.06	-100 ~ 60	X	O	O
027	-1 ~ 1	-0.1 ~ 0.1	-100 ~ 100	O	O	O
007	-1 ~ 1.5	-0.1 ~ 0.15	-100 ~ 150	X	O	O
028	-1 ~ 2	-0.1 ~ 0.2	-100 ~ 200	O	O	O
029	-1 ~ 3	-0.1 ~ 0.3	-100 ~ 300	O	O	O
030	-1 ~ 4	-0.1 ~ 0.4	-100 ~ 400	O	O	O
010	-1 ~ 5	-0.1 ~ 0.5	-100 ~ 500	O	O	O
031	-1 ~ 6	-0.1 ~ 0.6	-100 ~ 600	O	O	O
014	-1 ~ 9	-0.1 ~ 0.9	-100 ~ 900	O	O	O
032	-1 ~ 10	-0.1 ~ 1	-100 ~ 1,000	O	O	O
033	-1 ~ 15	-0.1 ~ 1.5	-100 ~ 1.5 MPa	O	O	O
034	-1 ~ 20	-0.1 ~ 2	-100 ~ 2 MPa	O	O	O
017	-1 ~ 24	-0.1 ~ 2.4	-100 ~ 2.4 MPa	O	O	O
035	-1 ~ 25	-0.1 ~ 2.5	-100 ~ 2.5 MPa	O	O	O

O : Available X : Not available Δ : Not available with ±0.5 % of full scale