

# General service pressure gauge

## Model : P110 series

Spec. sheet no. PD0-01

### Service intended

P110 series are a general service pressure gauge. P110 is a low cost and features high quality parts. It is suitable for a non-corrosive fluid. Air, oil, gas or water services are the most common applications.



### Nominal diameter

40, 50, 60, 75, 100, 150 and 200 mm

### Accuracy

40mm :  $\pm 3.0\%$  of full scale

50, 60, 75, 100, 150 and 200 mm :  $\pm 1.5\%$  of full scale

### Scale range (MPa, kPa, bar)

40 mm : 0 ~ 0.2 to 0 ~ 3.5 MPa

50 mm : 0 ~ 0.2 to 0 ~ 10 MPa

60 and 75 mm : -0.1 ~ 0 to 0 ~ 25 MPa

100 mm (New) : -0.1 ~ 0 to 0 ~ 35 MPa

100 and 150 mm : -0.1 ~ 0 to 0 ~ 100 MPa

200 mm : -0.1 ~ 0 to 0 ~ 35 MPa

### Working temperature

Ambient : -20 ~ 60°C

Fluid : Max. 60°C

### Temperature effect

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



## Standard features

### Pressure connection

Brass

### Element

40 and 50 mm : Brass

60, 75 and 100 mm (New) :  $\leq 10$  MPa : Brass  
>10 MPa : 316SS

100, 150 and 200 mm :  $\leq 7$  MPa : Brass  
>7 MPa : 316SS

C type bourdon tube or helical bourdon tube

### Case

Black finished steel

Black finished aluminium (Diameter 200 mm)

### Cover

Black finished steel

### Window

Glass

### Movement

Brass

### Dial

White aluminium with black graduations

### Pointer

Black painted aluminium alloy

### Process connection

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

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

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

75 and 100 mm (New) :  $\frac{3}{8}$ " PT, NPT and PF

100, 150 and 200 mm :  $\frac{1}{2}$ ",  $\frac{3}{8}$ " PT, NPT and PF

**WISE**<sup>®</sup>

**1. Base model****P110** General service pressure gauge**2. Nominal diameter (mm)**

- 0** 40
- 1** 50
- 2** 60
- 3** 75
- 4** 100
- 6** 150
- 7** 200

**3. Element**

- A** Bottom connection, direct, not available with diameter 200 mm
- B** Bottom connection, surface, case mounting plate, not available with diameter 40 mm
- F** Center back connection, direct, not available with diameter 100 mm (Old) , 150 and 200 mm
- G** Lower back connection, direct, only available with diameter 100 mm (Old) and 150 mm
- H** Center back connection, flush, case center mounting plate, only available with diameter 60, 75 and 100 mm (New)
- J** Center back connection, flush, cover mounting plate, not available with diameter 40, 100(Old), 150 and 200 mm
- M** Lower back connection, flush, case center mounting bracket, only available with diameter 100 mm (Old)
- N** Lower back connection, flush, cover mounting plate, only available with diameter 100(Old) and 150 mm

**4. Accuracy**

- 4** ±1.5% of full scale. Not available with diameter 40 mm
- 6** ±3.0% of full scale

**5. Process connection**

- B** 1/8", only available with diameter 40 and 50 mm
- C** 1/4", only available with diameter 50 and 60 mm
- D** 3/8", not available with diameter 40, 50 and 60 mm
- E** 1/2", only available with diameter 100, 150 and 200 mm

**6. Connection type**

- B** PF
- C** PT
- D** NPT
- Z** Other (See note 1)

Note 1. Special connection type is available such as BSP and BSPT

**7. Unit**

- H** bar
- I** MPa
- J** kPa

**8. Range****XXX** Refer to pressure unit and range table**9. Dial color**

- 1** 2 colors
- 5** 3 colors, available with compound and vacuum gauges

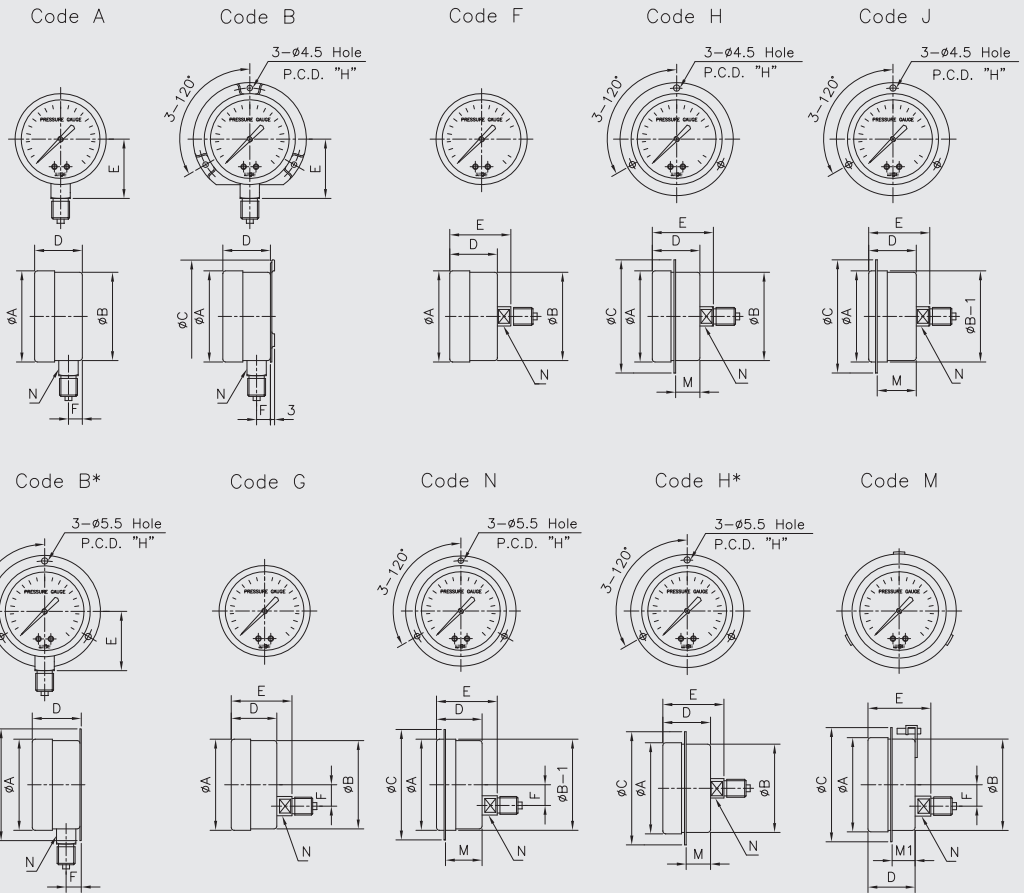
**10. Option**

- 0** None
- 1** Accessories

1	2	3	4	5	6	7	8	9	10
<b>P110</b>	<b>1</b>	<b>A</b>	<b>6</b>	<b>B</b>	<b>C</b>	<b>H</b>	<b>XXX</b>	<b>1</b>	<b>0</b>

Sample ordering code

# P110 : Type of mounting



\* ØB-1 : Panel cutting size.

Dimensions (mm)

Dial size	Available code	A	B	C	D±2	E±2	F±1	H	M	N
40	A,F	44.3	43.5		24	29	9			12
	A,B,F	54.5	53.5		27	37	9			14
50	J	54.5	54.5	70	27	37	9	62	23.5	14
	A,B	66	65	82	31.5	42	11	74		14
	F,J	66	70	82	34.5	44.5		74	28	14
60	H	66	65	82	34.5	44.5		74	18.8	14
	A,B	78	77	100	35	52	12.7	90		17
	F,J	78	82	100	35	47		90	29.5	17
75	H	78	77	100	35	47		90	19	17
	A	106(103.5)	105(102.4)		35(43.5)	64.5(75.5)	12.5(18)			17(22)
	B	106		128	36.5	64	14.5	115		17
100 (New)	F,J	106	110	128	35.5	47		115	29.2	17
	H*	106	105	128	35.5	47		115	18.7	17
	A	106(103.5)			35(43.5)	64.5(75.5)	12.5(18)			17(22)
	B*	103.5		128	45.5	76	19.7	115		22
100 (Old)	G,N	103.5	107.5	128	41.5	61.5	36	115	36	17
	M	103.5	102	128	41.5	61.5	36		14	17
	A	153	152		42.5(44)	88(105)	11.5(17)			19(22)
150	B	153		178	44	93	13	165		19
	G,N	153	156	178	42	61.5	36	165	35.5	17
	B*	203		235	49	128	15.5(17.5)	220		19(22)

## Scale ranges

Range and code	Unit and code			40 mm	50 mm	60 mm	75 mm	100 mm (new)	100 mm	150 mm	200 mm
	H : bar	I : MPa	J : kPa								
026	-1 ~ 0	-0.1 ~ 0	-100 ~ 0	X	X	O	O	O	O	O	X
041	0 ~ 1	0 ~ 0.1	0 ~ 100	X	X	O	O	O	O	O	X
042	0 ~ 2	0 ~ 0.2	0 ~ 200	O	O	O	O	O	O	O	O
043	0 ~ 3	0 ~ 0.3	0 ~ 300	X	O	O	O	O	O	O	O
044	0 ~ 4	0 ~ 0.4	0 ~ 400	O	O	O	O	O	O	O	O
045	0 ~ 6	0 ~ 0.6	0 ~ 600	O	O	O	O	O	O	O	O
047	0 ~ 10	0 ~ 1	0 ~ 1,000	O	O	O	O	O	O	O	O
050	0 ~ 15	0 ~ 1.5	X	O	O	O	O	O	O	O	O
051	0 ~ 20	0 ~ 2	X	O	O	O	O	O	O	O	O
052	0 ~ 25	0 ~ 2.5	X	O	O	O	O	O	O	O	O
054	0 ~ 35	0 ~ 3.5	X	O	O	O	O	O	O	O	O
055	0 ~ 50	0 ~ 5	X	X	O	O	O	O	O	O	O
057	0 ~ 70	0 ~ 7	X	X	O	O	O	O	O	O	O
058	0 ~ 100	0 ~ 10	X	X	O	O	O	O	O	O	O
059	0 ~ 150	0 ~ 15	X	X	X	O	O	O	O	O	O
062	0 ~ 250	0 ~ 25	X	X	X	O	O	O	O	O	O
064	0 ~ 350	0 ~ 35	X	X	X	X	X	O	O	O	O
066	0 ~ 500	0 ~ 50	X	X	X	X	X	X	O	O	X
068	0 ~ 700	0 ~ 70	X	X	X	X	X	X	O	O	X
070	0 ~ 1,000	0 ~ 100	X	X	X	X	X	X	O	O	X
027	-1 ~ 1	-0.1 ~ 0.1	-100 ~ 100	X	X	O	O	O	O	O	X
028	-1 ~ 2	-0.1 ~ 0.2	-100 ~ 200	X	X	O	O	O	O	O	X
029	-1 ~ 3	-0.1 ~ 0.3	-100 ~ 300	X	X	O	O	O	O	O	X
031	-1 ~ 6	-0.1 ~ 0.6	-100 ~ 600	X	X	O	O	O	O	O	X
032	-1 ~ 10	-0.1 ~ 1	-100 ~ 1,000	X	X	O	O	O	O	O	X
033	-1 ~ 15	-0.1 ~ 1.5	-100 ~ 1.5MPa	X	X	O	O	O	O	O	X
034	-1 ~ 20	-0.1 ~ 2	-100 ~ 2MPa	X	X	O	O	O	O	O	X

O : Available X : Not available