

## RECEIVER GAUGE MODEL : P228 SERIES

**WISE**<sup>®</sup>

### SERVICE INTENDED

The P228 Series are designed to meet general requirements of the process Industry and provide remote or local indication.

### NOMINAL DIAMETER

100 and 160mm

### ACCURACY

±1.0% of Full Scale

### SCALE RANGE

0~10 Square Root Scale

0~100% Linear Scale

### WORKING PRESSURE

Steady : 75% of Full Scale

Over Range Protection : 130% of Full Scale

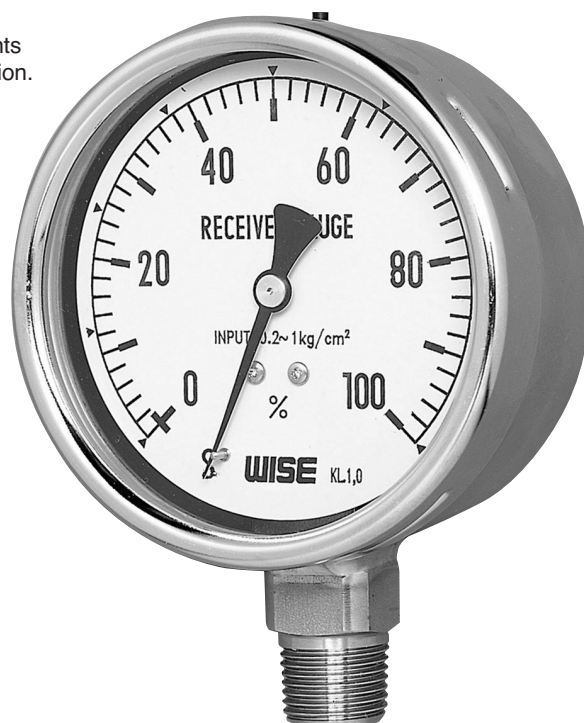
### WORKING TEMPERATURE

Ambient : -20 ~ 65°C

Fluid : -20 ~ 80°C

### DEGREE OF PROTECTION

IP65



## Standard Features

### PRESSURE CONNECTION

Stainless Steel (316SS)

### ELEMENT

Stainless Steel (316SS)

C Type Bourdon Tube

### CASE

Stainless Steel (304SS)

### WINDOW

Tempered Safety Glass

### COVER

Stainless Steel (304SS)

Bayonet Type

### MOVEMENT

Stainless Steel

### DIAL

White Aluminium with Black Graduations

### POINTER

Aluminium alloy, Black painted

### PROCESS CONNECTION

1/4", 3/8", 1/2", PT, NPT & PF, 1/4"PT(F), 1/4"NPT(F)

### PROCESS INPUT

0.2 ~ 1kgf/cm² (3 ~ 15 psi)

ORDERING INFORMATION

BASE MODEL

P228 : RECEIVER GAUGE

NOMINAL DIAMETER

- 4 : 100mm
- 6 : 160mm

MOUNTING TYPE (Refer to Mounting type & Dimension)

- A : Bottom Connection, Direct
- B : Bottom Connection, Surface, Case Mounting Plate
- G : Lower Back Connection, Direct
- L : Lower Back Connection, Surface, Case Mounting Plate
- M : Lower Back Connection, Flush, Case Center Mounting Bracket, Only available with diameter 100mm
- N : Lower Back Connection, Flush, Cover Mounting Plate
- W : Lower Back Connection, Flush, Cover Mounting Bracket, Only available with diameter 100mm

ACCURACY

- 3 : ±1.0% of Full Scale

CONNECTION

- C : 1/4"
- D : 3/8"
- E : 1/2"

CONNECTION TYPE

- B : PF
- C : PT
- D : NPT
- Z : PT.F, Only Available with Connection 1/4"

SCALE

- X : Square Root
- W : % Linear

RANGE

- 047 : 0 ~10, Square Root Scale Only
- 058 : 0 ~100, Linear Scale Only

DIAL COLOR

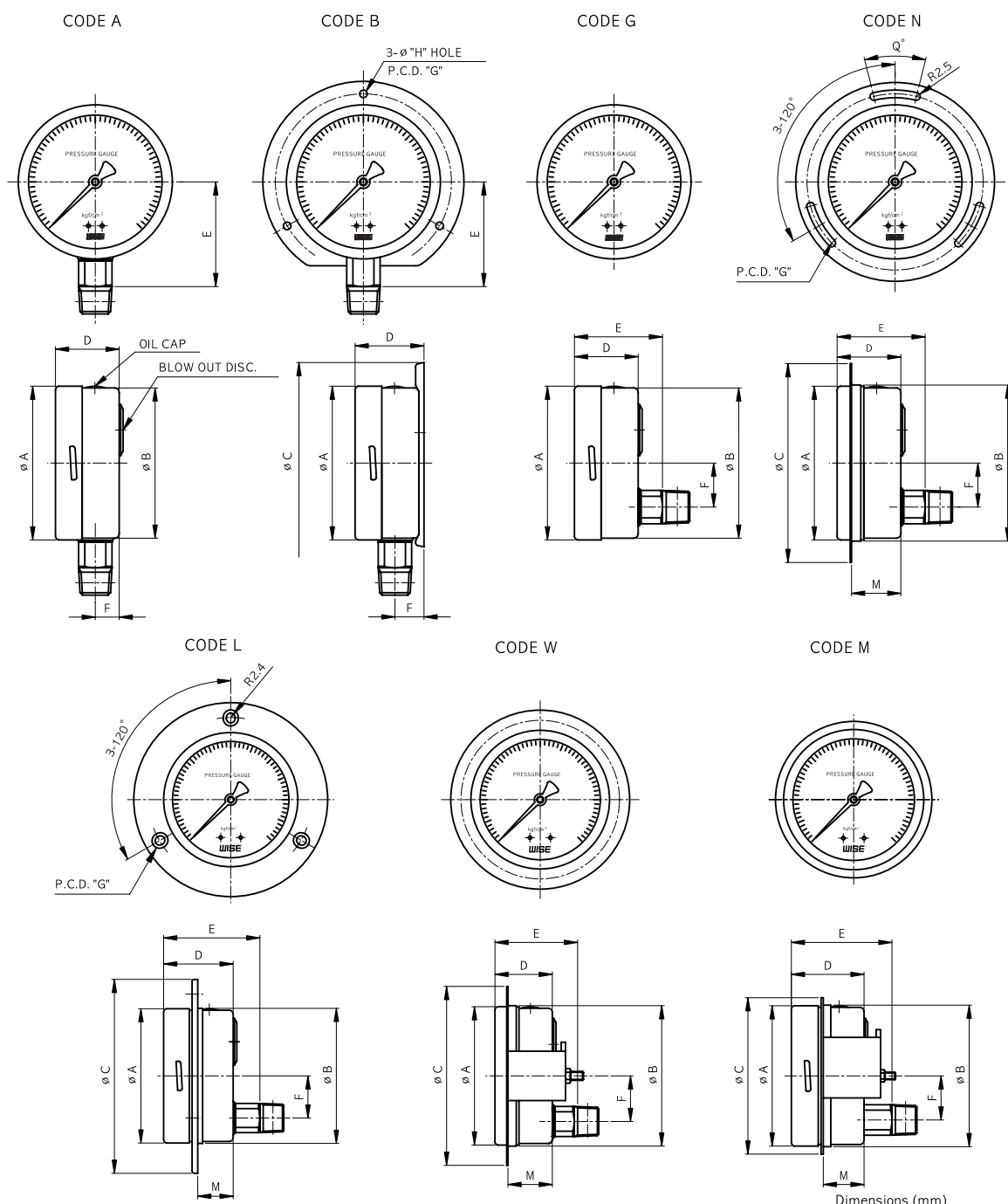
- 3 : 2 Colors
- 7 : 3 Colors

OPTIONS

- 0 : None
- 1 : Accessories

|      |   |   |   |   |   |   |     |   |   |                           |
|------|---|---|---|---|---|---|-----|---|---|---------------------------|
| P228 | 4 | A | 3 | C | C | X | 047 | 3 | 0 | SAMPLE<br>MODEL<br>NUMBER |
|------|---|---|---|---|---|---|-----|---|---|---------------------------|

## P228 : TYPE OF MOUNTING



| Dimensions (mm) |                |       |       |       |      |      |      |      |             |     |    |
|-----------------|----------------|-------|-------|-------|------|------|------|------|-------------|-----|----|
| DIAL SIZE       | AVAILABLE CODE | A     | B     | C     | D    | E    | F    | M    | G           | H   | Q  |
| 100             | A              | 101.3 | 99    |       | 50   | 65   | 16   |      |             |     |    |
|                 | B              | 101.3 |       | 133   | 54.4 | 65   | 19.4 |      | 115~116     | 5   |    |
|                 | G              | 101.3 | 99    |       | 50   | 65   | 29   |      |             |     |    |
|                 | N              | 101.3 | 103.1 | 130.5 | 50   | 65   | 29   | 45   | 116         |     | 28 |
|                 | L              | 101.3 | 100.4 | 132   | 50   | 65   | 29   | 27.7 | 115~116     |     |    |
|                 | W              | 101.3 | 103.1 | 130.5 | 50   | 65   | 29   | 45   |             |     |    |
| 160             | M              | 101.3 | 101   | 107.5 | 50   | 65   | 29   | 29.5 |             |     |    |
|                 | A              | 160.6 | 159   |       | 52.5 | 94   | 15.8 |      |             |     |    |
|                 | B              | 160.6 |       | 196   | 56   | 94   | 19.3 |      | 178         | 5.8 |    |
|                 | G              | 160.6 | 159   |       | 52.5 | 67.5 | 46   |      |             |     |    |
|                 | N              | 160.6 | 162.5 | 196   | 52.5 | 67.5 | 48   | 43   | 178         |     | 20 |
|                 | L              | 160.6 | 162   | 192   | 52.5 | 67.5 | 48   | 28   | 175.5~176.5 |     |    |
|                 | W              | 160.6 | 162.5 | 172   | 52.5 | 67.5 | 48   | 47.5 |             |     |    |
|                 | M              | 160.6 | 161.5 | 172   | 52.5 | 67.5 | 48   | 30.8 |             |     |    |

CONVERSION TABLE

| PRESSURE CONVERSION CHART |           |          |                     |         |         |         |          |                    |
|---------------------------|-----------|----------|---------------------|---------|---------|---------|----------|--------------------|
| PSI                       | ATM       | kg/cm²   | in.H <sub>2</sub> O | mmHg    | in.Hg   | kPa     | Bar      | mmH <sub>2</sub> O |
| 1                         | 0.068046  | 0.070307 | 27.7276             | 51.715  | 2.03602 | 6.895   | 0.06895  | 704.28104          |
| 14.696                    | 1         | 1.0332   | 407.484             | 760     | 29.921  | 101.325 | 1.01325  | 10350.0936         |
| 14.2233                   | 0.96784   | 1        | 394.38              | 735.559 | 28.959  | 98.096  | 0.98067  | 10000              |
| 0.036092                  | 0.002454  | 0.00253  | 1                   | 1.8651  | 0.07343 | 0.249   | 0.00249  | 25.4               |
| 0.019336                  | 0.001315  | 0.001359 | 0.53616             | 1       | 0.03937 | 0.1333  | 0.001333 | 13.618464          |
| 0.491154                  | 0.0033421 | 0.03453  | 13.6185             | 25.4    | 1       | 3.3864  | 0.033864 | 345.9099           |
| 0.145                     | 0.00987   | 0.010197 | 4.0186              | 7.5006  | 0.2953  | 1       | 0.01     | 102.07244          |
| 14.5038                   | 0.98692   | 1.01972  | 402.156             | 750.062 | 29.53   | 100     | 1        | 10214.7624         |
| 0.00142                   | 0.000097  | 0.0001   | 0.03937             | 0.0734  | 0.0029  | 0.0098  | 0.000098 | 1                  |

| VOLUME CONVERSION CHART |            |              |               |          |             |         |             |
|-------------------------|------------|--------------|---------------|----------|-------------|---------|-------------|
| GALLON (U.S)            | CUBIC FEET | CUBIC INCHES | BARRELS (OIL) | CUBIC CM | CUBIC METER | LITER   | IMP. GALLON |
| 1                       | 0.1337     | 231          | 0.02381       | 3785     | 0.003785    | 3.785   | 0.8327      |
| 7.481                   | 1          | 1728         | 0.1781        | 28320    | 0.02832     | 28.32   | 6.229       |
| 0.004329                | 0.000578   | 1            | 0.000103      | 16.39    | 0.000016    | 0.01639 | 0.003605    |
| 42                      | 5.615      | 9702         | 1             | 159000   | 0.159       | 158.94  | 34.97       |
| 0.000264                | 0.000035   | 0.06102      | 0.000006      | 1        | 0.000001    | 0.001   | 0.00022     |
| 264.17                  | 35.3144    | 61023        | 6.2906        | 1000000  | 1           | 1000    | 220.1       |
| 0.264                   | 0.0353     | 61.03        | 0.0629        | 1000     | 0.001       | 1       | 0.22        |
| 1.201                   | 0.1606     | 277.4        | 0.0286        | 4546     | 0.004546    | 4.546   | 1           |

| MASS CONVERSION CHART |         |         |          |                            |          |              |          |
|-----------------------|---------|---------|----------|----------------------------|----------|--------------|----------|
| lb.                   | oz.     | kg      | gm       | gal H <sub>2</sub> O (32F) | long ton | metric tonne | ton      |
| 1                     | 16      | 0.4536  | 453.6    | 0.1198                     | 0.000446 | 0.000453     | 0.0005   |
| 0.0625                | 1       | 0.02835 | 28.35    | 0.00749                    | 0.000027 | 0.000028     | 0.000031 |
| 2.205                 | 35.27   | 1       | 1000     | 0.2642                     | 0.009839 | 0.001        | 0.001102 |
| 0.002205              | 0.03527 | 0.001   | 1        | 0.000264                   | 0.000000 | 0.000001     | 0.000001 |
| 8.345                 | 133.5   | 3.785   | 3785     | 1                          | 0.003726 | 0.003786     | 0.004171 |
| 2240                  | 35840   | 1016.4  | 1016363  | 268.352                    | 1        | 1.016        | 1.12     |
| 2204.6                | 35273   | 1000    | 1000000  | 264.11                     | 0.9842   | 1            | 1.1023   |
| 2000                  | 32000   | 907.03  | 909090.9 | 239.7                      | 0.892857 | 0.907194     | 1        |

| DENSITY CONVERSION CHART |          |         |          |
|--------------------------|----------|---------|----------|
| lb/ft³                   | gm/cm²   | kg/m³   | lb/in³   |
| 1                        | 0.016018 | 16.0184 | 0.000578 |
| 62.43                    | 1        | 1000    | 0.03613  |
| 0.06243                  | 0.001    | 1       | 0.000036 |
| 1728                     | 27.68    | 27679.8 | 1        |