

## NA100P SF<sub>6</sub> gas density meter



It is used to monitor the density of SF<sub>6</sub> gas in the closed container, display the gas density locally, and output the electric contact signal when the density value reaches the set value.

### Functional features

The function of three-way self sealing valve is optional

With temperature compensation device, high measurement accuracy

Suitable for indoor or outdoor installation

The main body is made of stainless steel:

Load cell: AISI 316L stainless steel

Instrument movement: stainless steel, copper alloy

Instrument housing: AISI 304 stainless steel

Connecting parts: AISI 316 stainless steel

Sealing material: EPDM, nitrile rubber

### Technical parameter

|                       |   |                           |  |
|-----------------------|---|---------------------------|--|
| Diameter              | φ100mm  | Insulating property       | Insulation resistance: ≥100MΩ<br>Dielectric strength: 2kV, 50/60Hz<br>1min, No arcs and breakdowns |
| Measuring range       | - 0.1MPa~0.9MPa   | Contact form              | Magnetic assisted electrical contact switch, Nickel alloy, 20 μm gold plated coating               |
| Accuracy level Grade  | 1.0 grade/1.6 grade @20°C,<br>1.6 grade/2.5 grade @-40°C~+60°C  | Contact parameters        | 30W /50VA, 1A (Max)  |
| Operating temperature | -40°C~+60°C   | Anti-impact intensity     | 50g (Oil filled type) 、 30g (No oil filled type)   |
| Sealing property      | 1× 10 <sup>-9</sup> Pa.m <sup>3</sup> /s<br>(helium leak-check) | Protection Classification | IP65   |
| size of outlet        | M20×1.5, G1/2 (customizable)                                    | Weight                    | About 1.2kg  |

## Optional features

Measurement gas: SF<sub>6</sub>, SF<sub>6</sub>/CF<sub>4</sub>, SF<sub>6</sub>/N<sub>2</sub> and other gases are optional

Medium: oil filled, air optional

Electrical contact: maximum of three pairs (set value can be required)

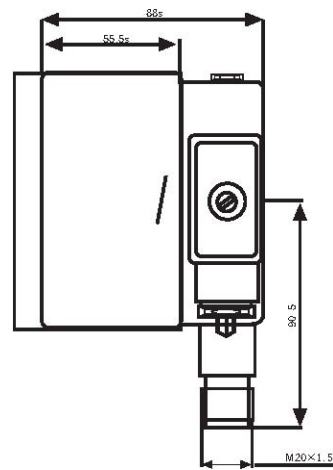
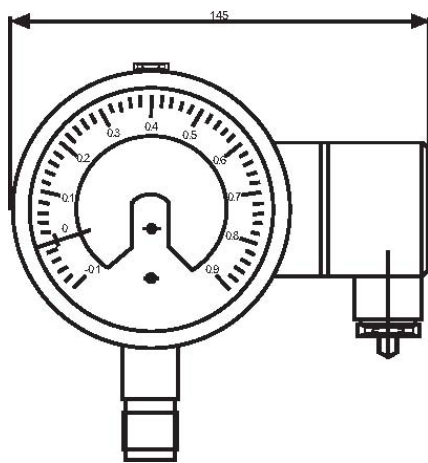
Installation mode: radial/axial installation is optional

Process connection: M20×1.5, G1/2, etc. (customizable)

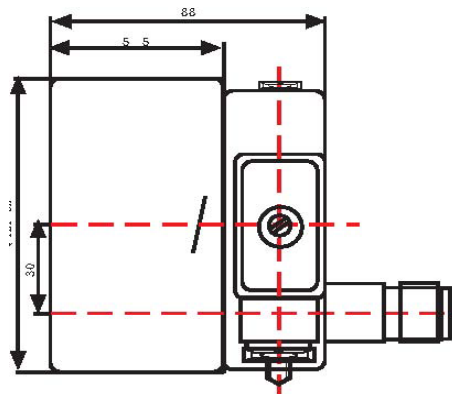
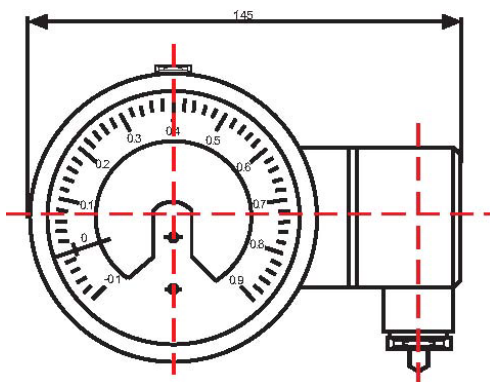
Optional accessories: bit number plate, rain shield, double scale, etc

## Structure Size

radial direction



axial direction



Model Selection Guide:

From 1 Selection table

| No | Pointer type density relay NA100P | oil-filled ( ) /<br>Air ( )<br>self-sealing ( )   | 1                | 2                | 3           | 4 | 5 | 6  | 7 |
|----|-----------------------------------|---|------------------|------------------|-------------|---|---|--|---|
| 1  | Detect gas                        | SF6<br>SF6/N2(30/70)<br>SF6/CF4(60/40)<br>other   | 1<br>2<br>3<br>4 |                  |             |   |   |  |   |
| 2  | Performance index                 | -0.1MPa~0.9MPa, 1.0 grade @20℃, 1.6 grade @-40℃~+60℃<br>-0.1MPa~0.9MPa, 1.6 grade @20℃, 2.5 grade @-40℃~+60℃<br>other |                  | A<br>B<br>C      |             |   |   |  |   |
| 3  | size of interface                 | M20×1.5<br>1/2NPT<br>G1/2<br>other  | 1<br>2<br>3<br>4 |                  |             |   |   |  |   |
| 4  | Jack Material                     | SUS304<br>SUS316<br>Aldary  |                  | A<br>B<br>C      |             |   |   |  |   |
| 5  | Number of electrical contacts     | single<br>Double contact<br>triple contact  |                  |                  | 1<br>2<br>3 |   |   |  |   |
| 6  | Installation methods              | Radial Install<br>Lower axial mounting<br>Central axial mounting<br>other   |                  | H<br>B<br>Z<br>X |             |   |   |  |   |
| 7  | The other options                 | scoring board<br>dual gage<br>Rain Cover  |                  |                  |             |   |   | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |   |

| No                         | 01   | 02   | 03   | 04   | 05   | 06   | 07   |
|----------------------------|------|------|------|------|------|------|------|
| rated pressure Pf(MPa)     | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 |
| alarm pressure<br>Ps1(MPa) | 0.25 | 0.30 | 0.35 | 0.35 | 0.45 | 0.50 | 0.55 |
| lock pressure Ps2(MPa)     | 0.20 | 0.25 | 0.30 | 0.30 | 0.40 | 0.45 | 0.50 |
| lock pressure Ps3(MPa)     |      |      |      |      |      |      | 0.50 |

