



## JP-1000

### Features 1.Compact 2.For noncorrosive fluid

- Lightweight, compact, and robust gauge pressure sensor
- A wide pressure range and positive pressure, negative pressure, and compound pressure
- Output signal of 1 to 5 VDC or 4 to 20 mA from a built-in amplifier circuit
- Inexpensive noncorrosive fluid

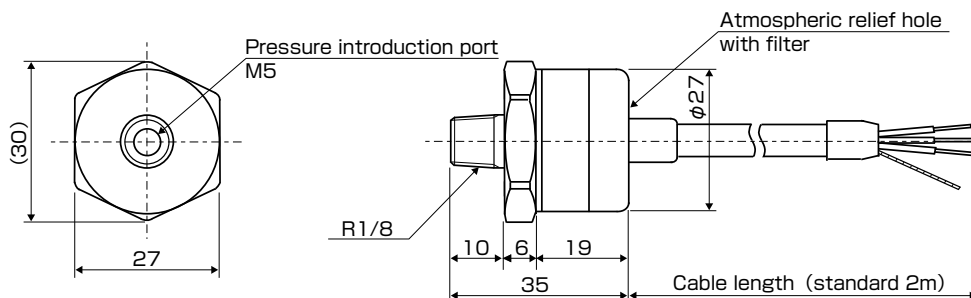


### Specifications

| Model                         | JP-1300 · JP-1200   |            |  |                                      |                          |           |
|-------------------------------|---|------------|--|--------------------------------------|--------------------------|-----------|
|                               | -020KP  | -050KP     | -100KP                                       | -300KP                               | -500KP                   | -001MP    |
| Rated pressure ※ 1            | 0 to 20kPa  | 0 to 50kPa | 0 to 100kPa                                  | 0 to 300kPa                          | 0 to 500kPa              | 0 to 1MPa |
| Pressure type                 | Gauge pressure  |            |  |                                      |                          |           |
| Overpressure                  | JP-1300 : 200% of the rated pressure                      |            |  | JP-1200 : 150% of the rated pressure |                          | 150%      |
| Wetted part material          | Pressure port : SUS316                                    |            | Glass pedestal : Pyrex glass                 |                                      | Sensor element : Silicon |           |
| Applicable media              | Non-corrosive gas and non-corrosive liquid                |            |  |                                      |                          |           |
| Power supply                  | 12 to 28VDC   |            |  |                                      |                          |           |
| Output                        | JP-1300 : 1 to 5VDC                                       |            |  | JP-1200 : 4 to 20 m ADC              |                          |           |
| Current consumption           | JP-1300 : 6mA or less                                     |            |  |                                      |                          |           |
| Load resistance               | JP-1300 : 1k Ω or more                                    |            | JP-1200 : 600 Ω or less (at power of 24 VDC) |                                      |                          |           |
| Responsiveness                | 5msec or less   |            |  |                                      |                          |           |
| Accuracy (linearity)          | ± 0.5% F.S. or less<br>(± 0.3% F.S. or less)              |            |  |                                      |                          |           |
| Temperature characteristics   | ± 0.05% F.S. / °C or less (0 to 60°C)                     |            |  |                                      |                          |           |
| Compensated temperature range | 0 to 60°C   |            |  |                                      |                          |           |
| Operating temperature range   | - 10 to 80°C (no freezing allowed)                        |            |  |                                      |                          |           |
| Operating humidity range      | 35 to 85% RH (no dew condensation allowed)                |            |  |                                      |                          |           |
| Pressure connection port      | R1/8  |            |  |                                      |                          |           |
| Cable                         | φ 6 vinyl : Shield cable 2m (standard)                    |            |  |                                      |                          |           |
| Structure                     | IP65  |            |  |                                      |                          |           |
| Insulation resistance         | 100M Ω or more / 500VDC                                   |            |  |                                      |                          |           |
| Withstand voltage             | 500VAC, 1 minute  |            |  |                                      |                          |           |
| Vibration resistance          | 98.1m / s <sup>2</sup> , 2 hours (X, Y, and Z directions) |            |  |                                      |                          |           |
| Weight                        | Approx 140g   |            |  |                                      |                          |           |

※ 1. We also manufacture negative pressure and compound pressure sensors (gauge pressure of 500 kPa or less).

### Dimensions (Units : mm)



### Cables / wires

|       | JP-1300        | JP-1200        |
|-------|----------------|----------------|
| Red   | Power supply + | Power supply + |
| White | Output         | Power supply - |
| Black | Common         | —              |

### Model

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|      |   |                       |                |                  |                    |                               |
|------|---|-----------------------|----------------|------------------|--------------------|-------------------------------|
| Type | Output mode                                 | Special               | Pressure range | Unit of pressure | Cable length       |                               |
|      | 1 : Element                                 |                       |                | KP : kPa         | specifiable        | ※ Special                     |
|      | 2 : Current 4-20mA                          | Pressure type         |                | MP : MPa         | 02 : 2m (standard) | 0 : None                      |
|      | 3 : Voltage 1-5V                            | 0 : Positive pressure |                |                  | 05 : 5m            | 1 to 9 : Special              |
|      | 4 : Voltage 1-2V<br>(Power supply 6 to 12V) | 1 : Negative pressure |                |                  | 10 : 10m           | Accuracy / Output / unit etc. |
|      |   | 2 : Compound pressure |                |                  |                    |                               |