

## JW-8700 • JW-8600



### Features 1. Immersion-type 2. Water pressure measurement

- When used as an immersion-type water level sensor :
  - Ideal for water level observation for water channels, groundwater, reservoirs, tanks, etc.
  - Measurement to an accuracy of millimeters possible
  - Need for atmospheric correction eliminated by the built-in atmospheric relief pipe
- When used as a water pressure sensor :
  - Full waterproof type with the IP68 structure with high environmental resistance
  - Air release possible with a sealed screw
  - Wide range of positive pressure, negative pressure, and compound pressure
- Output signal of 1 to 5 VDC or 4 to 20 mADC from a built-in amplifier circuit

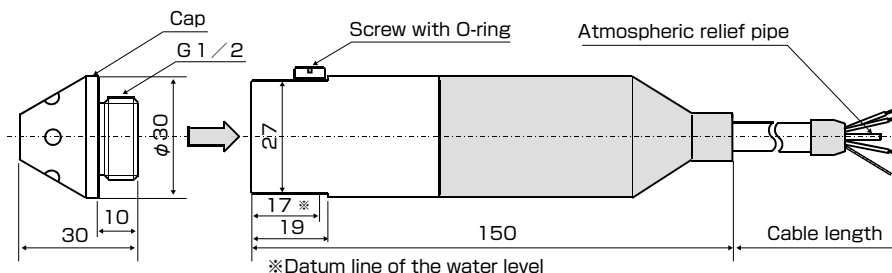
### Specifications

Model	JW-8700 • JW-8600							
	Water pressure sensor					Water level sensor		
	-020KP	-050KP	-100KP	-300KP	-500KP	-02M	-05M	-10M
Rated pressure ※ 1	0 to 20kPa	0 to 50kPa	0 to 100kPa	0 to 300kPa	0 to 500kPa	0 to 2mH <sub>2</sub> O	0 to 5mH <sub>2</sub> O	0 to 10mH <sub>2</sub> O
Pressure type	Gauge pressure ※ 2							
Overpressure	JW-8700 : 200% of the rated pressure / JW-8600 : 150% of the rated pressure							
Wetted part material	Diaphragm : SUS316L Pressure port : SUS316 O-ring : Fluororubber Cap : Plastic Shrinkable tube : Polyolefin							
Sealing liquid	Silicone oil							
Power supply	12 to 28VDC							
Output	JW-8700 : 1 to 5VDC / JW-8600 : 4 to 20mADC							
Current consumption	JW-8700 : 6mA or less							
Load resistance	JW-8700 : 1k Ω or more / JW-8600 : 600 Ω or less (at power of 24 VDC)							
Responsiveness	5msec or less							
Accuracy (linearity)	± 0.3% F.S. or less (± 0.2% F.S. or less)							
Zero temperature characteristics	± 0.025% F.S./°C or less (0 to 60°C)					± 0.015% F.S./°C or less (- 2 to 30°C)		
Compensated temperature range	0 to 60°C					- 2 to 30°C		
Operating temperature range	- 10 to 70°C (no freezing allowed)							
Pressure connection port	G1/2 female screw							
Cable	φ 7 vinyl : 10m (standard) Shield + atmospheric relief pipe							
Tensile strength	100N (Between the main unit and cable)							
Structure	IP68							
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	Main unit : approx 250g Cable : approx 65g per meter							
Impact of mounting orientation (port orientation changed from downward to sideways)	+ 0.5% F.S.	+ 0.3% F.S.	+ 0.1% F.S.			+ 0.5% F.S.	+ 0.3% F.S.	+ 0.1% F.S.

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

※ 2. Make sure that the operating vacuum pressure is 10 kPa abs or more. (Operating temperature range: 0 - 60°C)

### Dimensions (Units : mm)



### Cables / wires

	JW-8700	JW-8600
Red	Power supply +	Power supply +
White	Output	Power supply -
Black	Common	—
Atmospheric relief pipe	Yes	Yes

### Model

**JW - 8000 - [ ] [ ] [ ] KP / [ ] [ ] M - [ ] [ ] [ ]**

Output mode      Pressure type      Special      Unit of pressure      Cable length  
**5** : Element      **0** : Positive pressure      **0** : None      or Measurement range      **010** : 10m      **030** : 30m  
**6** : Current 4 - 20mA      **1** : Negative pressure      **1 to 9** : Special      (standard)      **050** : 50m  
**7** : Voltage 1 - 5V      **2** : Compound pressure (Accuracy, Output, unit etc.)      **100** : 100m  
**8** : Voltage 1 - 2V / 6 - 12V