

## HM-450 • HM-470



### Features 1.Immersion-type 2.Thin-diameter type

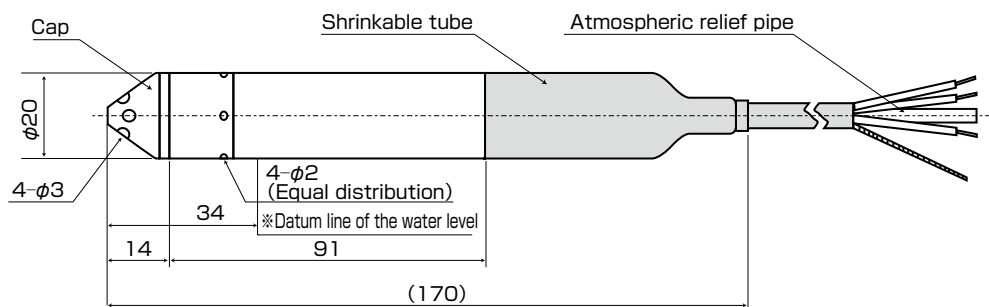
- Thin immersion-type water level sensor whose outer diameter is 20 mm
- Ideal for groundwater level measurement in small boreholes
- Water level measurement to an accuracy of millimeters possible
- Output signal of 1 to 5 VDC or 4 to 20 mADC from a built-in amplifier circuit
- Built-in arrester

### Specifications

Model	HM-450					HM-470				
	-05	-10	-20	-30	-50	-05	-10	-20	-30	-50
Rated pressure	5mH <sub>2</sub> O	10mH <sub>2</sub> O	20mH <sub>2</sub> O	30mH <sub>2</sub> O	50mH <sub>2</sub> O	5mH <sub>2</sub> O	10mH <sub>2</sub> O	20mH <sub>2</sub> O	30mH <sub>2</sub> O	50mH <sub>2</sub> O
Overpressure	200% of the rated pressure					150% of the rated pressure				
Power supply	12 to 28VDC									
Output	1 to 5VDC					4 to 20mADC				
Current consumption	6mA or less					—				
Load resistance	1k Ω or more					600 Ω以下 (at power of 24 VDC)				
Accuracy (linearity)	± 0.3% F.S. or less * 1 (± 0.2% F.S. or less)									
Temperature characteristics at zero degrees	± 0.015% F.S. / °C or less (– 2 to 30°C)									
Compensated temperature range	– 2 to 30°C									
Operating temperature range	– 10 to 50°C (no freezing allowed)									
Material	Diaphragm : SUS316L Main unit : SUS316 O-ring : Fluororubber Cap : Plastic Shrinkable tube: Polyolefin									
Sealing liquid	Silicone oil									
Cable	φ 8 polyurethane : 10m (standard) Shield + atmospheric relief pipe									
Tensile strength	100N (Between the main unit and cable)									
Insulation resistance	100M Ω or more / 500VDC									
Withstand voltage	500VAC, 1 minute									
Weight	Main unit : approx 160g Cable : approx 65g per meter									

\* 1. We also manufacture high-accuracy pressure sensors (accuracy: ± 0.1% F.S. or less).

### Dimensions (Units : mm)



### Cables / wires

	HM-450	HM-470
Red	Power supply +	Power supply +
White	Output	Power supply -
Black	Common	—
Atmospheric relief pipe	Yes	Yes

### Model

<b>H M</b>	<b>4 5 0</b>	<b>0 5</b>	<b>3 0</b>
Type	Output mode	Measurement range	Cable length
	<b>450</b> : Voltage output <b>470</b> : Current output	<b>05</b> : 5m <b>10</b> : 10m <b>20</b> : 20m <b>30</b> : 30m <b>50</b> : 50m	<b>10</b> : 10m (standard) <b>20</b> : 20m <b>30</b> : 30m