



## ZHV • ZHI



### Features 1.Compact 2.Titanium medium and high pressure

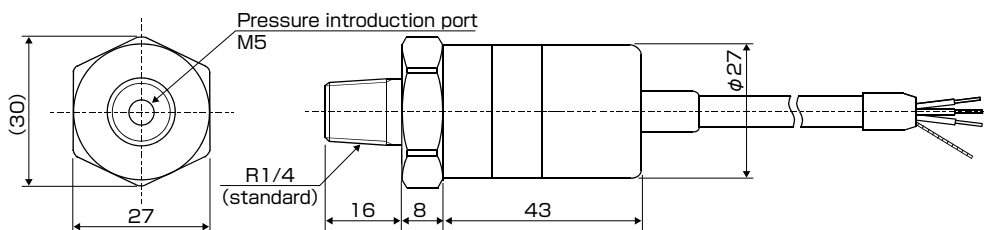
- Titanium pressure sensor for a 3-10 MPa range
- High-accuracy measurement of seawater pressure
- Output signal of 1 to 5 VDC or 4 to 20 mA from a built-in amplifier circuit
- Ideal for sea depth measurement and water pressure control for seawater desalination devices

### Specifications

Model	ZHV • ZHI		
	-003MP	-005MP	-010MP
Rated pressure	0 to 3MPa	0 to 5MPa	0 to 10MPa
Pressure type	Shield gauge pressure		
Overpressure	ZHV : 200% of the rated pressure / ZHI : 150% of the rated pressure		100%
Wetted part material	Diaphragm : Titanium Pressure port : Titanium		
Sealing liquid	Silicone oil		
Applicable media	Gas and fluid (media not damaging the wetted part material)		
Power supply	12 to 28VDC		
Output	ZHV : 1 to 5VDC / ZHI : 4 to 20mADC		
Current consumption	ZHV : 6mA or less		
Load resistance	ZHV : 1k Ω or more / ZHI : 600 Ω or less (at power of 24 VDC)		
Responsiveness	5msec or less		
Accuracy (linearity)	± 0.5% F.S. or less * 1 (± 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	- 20 to 80°C (no freezing allowed)		
Operating humidity range	35 to 85% RH (no dew condensation allowed)		
Pressure connection port	R1/4		
Cable	φ 6 vinyl : 500mm / 2000mm (standard) Shield cable		
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 150g		

\* 1. We also manufacture high-accuracy pressure sensors (accuracy: ± 0.25% F.S. or less).

### Dimensions (Units : mm)



### Cables / wires

	ZHV	ZHI
Red	Power supply +	Power supply +
White	Output	Power supply -
Black	Common	—

### Model

Z	H	I	-	0	0	5	MP	-	0	2
Type	Output mode	Pressure range	Unit of pressure	Cable length	Space : 0.5m					
	V : Voltage		KP : kPa	02 : 2m						
	I : Current		MP : MPa	05 : 5m						
				10 : 10m						