



ZLV • ZLI

Features 1.Compact 2.Titanium welded structure

- The wetted part is entirely made of titanium that has high corrosion resistance.
- Gauge pressure sensor with a welded structure that does not use an O-ring in the wetted part
- Support of a wide range of pressure media such as seawater, gas, and medicinal solution
- Output signal of 1 to 5 VDC or 4 to 20 mADC from a built-in amplifier circuit



Specifications

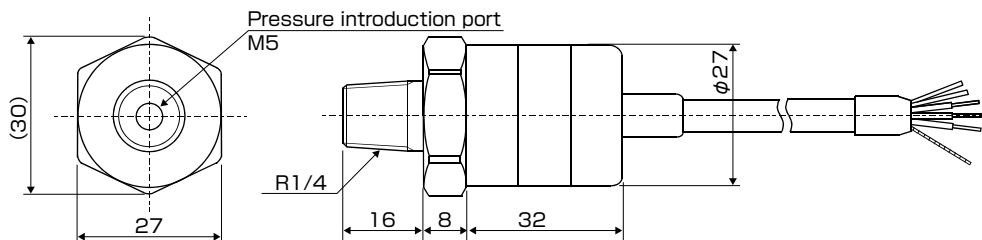
Model	ZLV • ZLI						
	N-100KP	-020KP	-050KP	-100KP	-300KP	-500KP	-001MP
Rated pressure * 1	0 to - 100kPa	0 to 20kPa	0 to 50kPa	0 to 100kPa	0 to 300kPa	0 to 500kPa	0 to 1MPa
Pressure type	Gauge pressure * 2						
Overpressure	ZLV : 200% of the rated pressure / ZLI : 150% of the rated pressure						
Wetted 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	ZLV : 1 to 5VDC / ZLI : 4 to 20mADC						
Current consumption	ZLV : 6mA or less						
Load resistance	ZLV : 1k Ω or more / ZLI : 600 Ω or less (at power of 24 VDC)						
Responsiveness	5msec or less						
Accuracy (linearity)	± 0.5% F.S. or less * 3 (± 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 (Measurement medium temperature)	- 20 to 80°C (no freezing allowed) - 20 to 100°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 + atmospheric relief pipe						
Structure	IP65						
Insulation resistance	100M Ω or more / 500VDC						
Withstand voltage	500VAC, 1 minute						
Vibration resistance	98.1m / s ² , 2 hours (X, Y, and Z directions)						
Weight	Approx 140g						
Impact of mounting orientation (port orientation changed from downward to sideways)	+ 0.1% F.S.	+ 0.5% F.S.	+ 0.3% F.S.	+ 0.1% F.S.			

* 1.We also manufacture 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)

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

Dimensions (Units : mm)



Cables / wires

	ZLV	ZLI
Red	Power supply +	Power supply +
White	Output	Power supply -
Black	Common	—
Atmospheric relief pipe	Yes	Yes

Model

Z L V C - 0 5 0 K P - 0 2

Type Output mode Special Pressure range Unit of pressure Cable length
V : Voltage **Space** : Positive pressure **KP** : kPa **Space** : 0.5m
I : Current **N** : Negative pressure **MP** : MPa **02** : 2m
C : Compound pressure **05** : 5m
10 : 10m