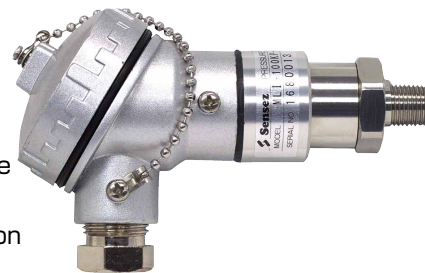




## MLI

### Features 1.Terminal box type 2.Welded structure

- Terminal box type of the "HL series" pressure sensor with a welded structure
- Outdoor specification / Waterproof IP67 structure
- Support of a wide range of pressure media such as gas and medicinal solution
- Output signal of 4 to 20 mADC from a built-in amplifier circuit



### Specifications

Model	MLI									
	N-100KP	-020KP	-050KP	-100KP	-300KP	-500KP	-001MP	-002MP	-003MP	-005MP
Rated pressure * 1	0 to -100kPa	0 to 20kPa	0 to 50kPa	0 to 100kPa	0 to 300kPa	0 to 500kPa	0 to 1MPa	0 to 2MPa	0 to 3MPa	0 to 5MPa
Pressure type	Gauge pressure * 2 * 3									Shield gauge pressure
Overpressure	150% of the rated pressure									
Wetted part material	Diaphragm : SUS316L Pressure port : SUS316									
Sealing liquid	Silicone oil									
Applicable media	Gas and fluid (media not damaging the wetted part material)									
Power supply	12 to 28VDC									
Output	4 to 20mADC									
Load resistance	600 Ω or less (at power of 24 VDC)									
Responsiveness	5msec or less									
Accuracy (linearity)	± 0.5% F.S. or less * 4 (± 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 (standard) · R3/8 · R1/2 · G1/4 · G3/8									
Terminal box	Material : Aluminum die casting									
Wire outlet	G1/2 Applicable outer cable diameter : φ 6.5 to 8.0									
Structure	IP67									
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 320g									
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.						

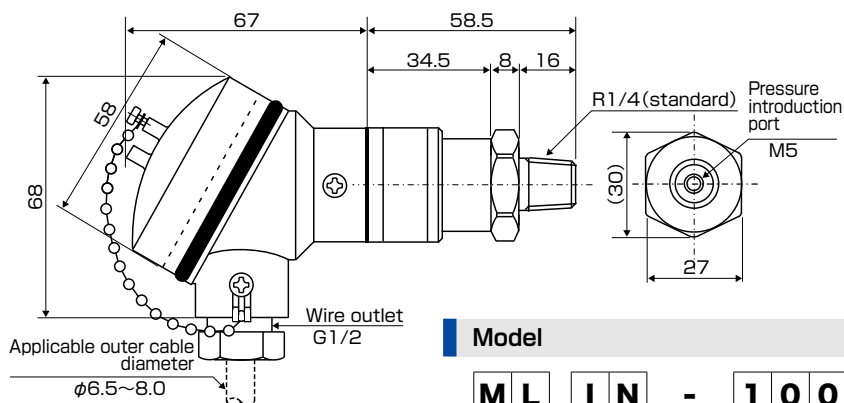
\* 1. We also manufacture compound pressure sensors (gauge pressure of 500 kPa or less).

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

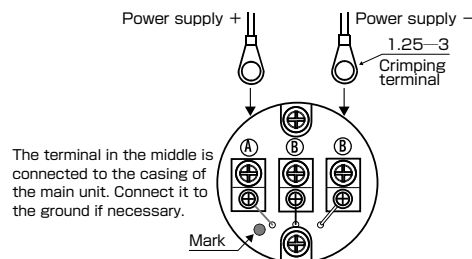
\* 3. Use a wiring cable for atmospheric pressure correction.

\* 4. We also manufacture high-accuracy pressure sensors (accuracy: ± 0.25% F.S. or less).

### Dimensions (Units : mm)



### Internal terminal block / wires



### Model

**MLIN-100KP-R3**

Type	Output mode	Special	Pressure range	Unit of pressure	Pressure connection port
<b>I</b> : Current	<b>Space</b> : Positive pressure	<b>KP</b> : kPa	<b>MP</b> : MPa	<b>Space</b> : R1/4 (standard)	<b>R3</b> : R3/8
	<b>N</b> : Negative pressure			<b>R4</b> : R1/2	<b>G2</b> : G1/4
	<b>C</b> : Compound pressure			<b>G3</b> : G3/8	