



HTV • HTI / HGV • HGI



Features 1.Compact 2.For gauge pressure

- Gauge pressure sensors with a stainless steel diaphragm structure
- High accuracy and excellent durability for a wide range of pressures
- Support of a wide range of pressure media such as water and oil
- Output signal of 1 to 5 VDC or 4 to 20 mADC from a built-in amplifier circuit

Specifications

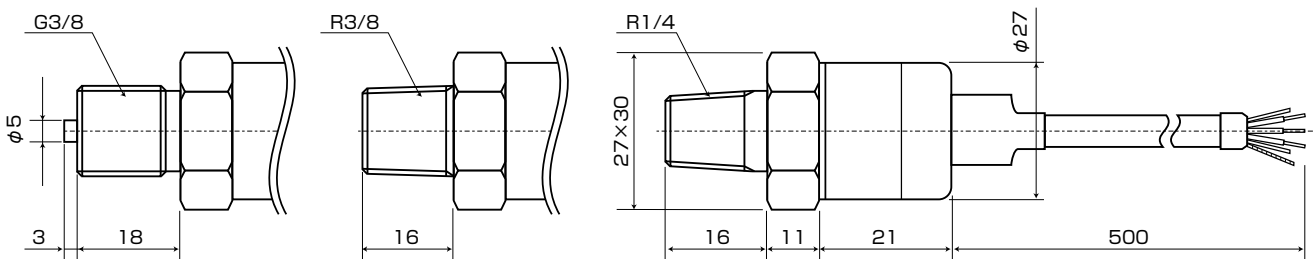
Model	HTV • HTI						HGV • HGI	
	N-100KP	-020KP	-050KP	-100KP	-300KP	-500KP	-001MP	-002MP
Rated pressure * 1	0 to -100kPa	0 to 20kPa	0 to 50kPa	0 to 100kPa	0 to 300kPa	0 to 500kPa	0 to 1MPa	0 to 2MPa
Pressure type	Gauge pressure * 2							
Overpressure	HTV/HGV : 200% of the rated pressure / HTI/HGI : 150% of the rated pressure							
Wetted part material	Diaphragm : SUS316L Pressure port : SUS316 O-ring : Fluororubber (standard)							
Sealing liquid	Silicone oil							
Applicable media	Gas and fluid (media not damaging the wetted part material)							
Power supply	12 to 28VDC							
Output	HTV/HGV : 1 to 5VDC / HTI/HGI : 4 to 20mADC							
Current consumption	HTV/HGV : 6mA or less							
Load resistance	HTV/HGV : 1k Ω or more / HTI/HGI : 600 Ω or less (at power of 24 VDC)							
Responsiveness	5 msec 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	- 10 to 80°C (no freezing allowed)							
Operating humidity range	35 to 85% RH (no dew condensation allowed)							
Pressure connection port	R1/4 (standard) • R3/8 • G3/8							
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 170g							
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

	HT (G) V	HT (G) I
Red	Power supply +	Power supply +
White	Output	Power supply -
Black	Common	—
Atmospheric relief pipe	Present	Present

Model

H	T	V	C	-	0	2	0	K	P	-	0	2	-	V	-	R	3
Type	Output mode	Pressure range	Unit of pressure	Cable length	O-ring	Pressure connection port											
HT	V : Voltage	Special	KP : kPa	Space : 0.5m	V : Fluororubber	Space : R1/4 (standard)											
HG	I : Current	Space : Positive pressure	MP : MPa	02 : 2m	N : NBR	R3 : R3/8											
		N : Negative pressure		05 : 5m	X : Other	G3 : G3/8											
		C : Compound pressure		10 : 10m													