

CTV · CTI

Features 1.Connector type 2.For gauge pressure

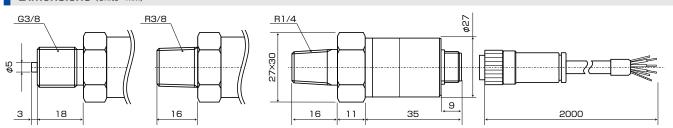
- Connector type of the "HT/HG series" gauge pressure sensor
- Easy to handle and highly maintainable
- Support of a wide range of pressure media such as water and oil
- Output signal of 1 to 5 VDC or 4 to 20 mADC from a built-in amplifier circuit

Specifications

Model	CTV / CTI							
	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	CTV: 200% of the rated pressure / CTI: 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	CTV: 1 to 5VDC / CTI: 4 to 20mADC							
Current consumption	CTV: 6mA or less							
Load resistance	CTV: 1k Ω or more $/$ CTI: 600 Ω or less (at power of 24 VDC)							
Responsiveness	5msec or less							
Accuracy (linearity)	\pm 0.5% F.S. or less *3 (\pm 0.3% F.S. or less)							
Temperature characteristics	\pm 0.05% F.S. $/^{\circ}$ C or less (0 to 60 $^{\circ}$ C)							
Compensated temperature range	0 to 60℃							
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 (with connector) : 2000mm (standard) Shield cable + atmospheric relief pipe							
Structure	IP66							
Insulation resistance	100M Ω or more \angle 500VDC							
Withstand voltage	500VAC, 1 minute							
Vibration resistance	98.1 m $/$ s ² , 2 hours (X, Y, and Z directions)							
Weight	Approx 230g							
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.				

- \divideontimes 1.We also manufacture compound pressure sensors (gauge pressure of 500 kPa or less).
- st 2.Make sure that the operating vacuum pressure is 10 kPa abs or more. (Operating temperature range: 0 60°C)
- $\fint 3$. We also manufacture high-accuracy pressure sensors (accuracy: \pm 0.25% F.S. or less).

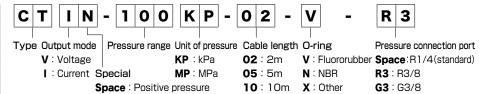
Dimensions (Units:mm)



Cables / wires

	CTV	CTI				
Red	Power supply +	Power supply +				
White	Output	Power supply -				
Black	Common	_				
Atmospheric relief pipe	Yes	Yes				

Model



N: Negative pressure C: Compound pressure