

# Digital pressure sensor PPG-C Series



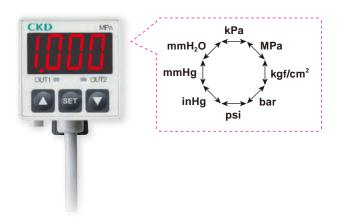
#### **Features**

- Set pressure: Composite pressure (-100.0 to 100.0kPa) Vacuum pressure (10.0 to -101.3kPa) Positive pressure (-0.100 to 1.000MPa)
- Switch output 2 point, analog voltage output 1 point
- Set hysteresis
- Pressure display repeatability: Within ±2% F.S.
- Pressure unit can be switched: kPa, MPa, kgf/cm<sup>2</sup>, bar, psi, inHg, mmHg, mmH<sub>2</sub>O
- Degree of protection: IP65





#### Pressure unit can be switched



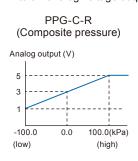
#### Dust proof and water proof performance

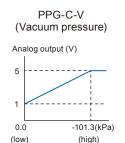
Degree of protection: IP65

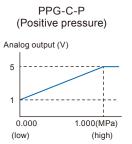


#### Analog voltage output (NA, PA type)

(Switch output 2 point + analog voltage output 1 point type) 1 to 5V analog voltage output in proportion to pressure

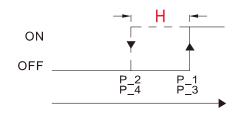






#### Adjustable hysteresis

Switch output hysteresis (H) is adjustable



Environmental survey only corresponds to the RoHS Certificate and REACH Certificate. Details of components do not correspond.



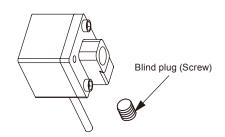
Prior to usage, please read the precautions in "Compressed Air, Vacuums, Auxiliary Component Integration No. CB-024S".

## PPG-C Series

### Specifications

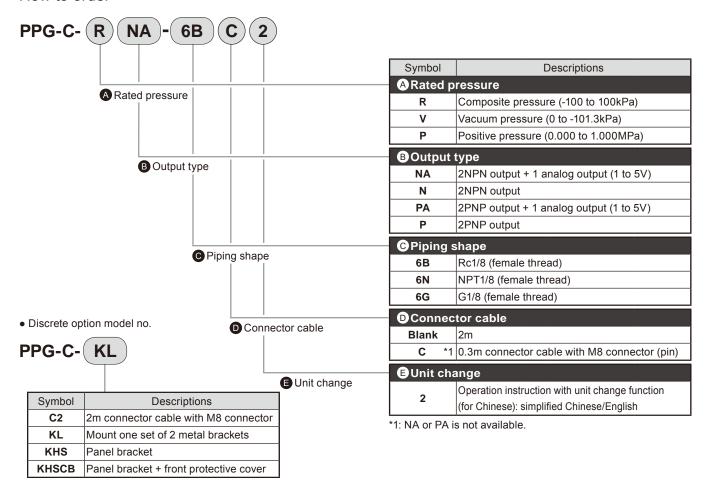
Description		PPG-C-R	PPG-C-V	PPG-C-P
Rated pressure		-100.0 to 100.0 kPa	0.0 to -101.3 kPa	0.000 to 1.000 MPa
Set pressure		-100.0 to 100.0 kPa	10.0 to -101.3 kPa	-0.100 to 1.000 MPa
Proof pressure		300kPa		1.5MPa
Working fluid		air/non-corrosive gas		
Display unit	kPa	0.1		-
	MPa	-		0.001
	kgf/cm <sup>2</sup>	0.001		0.01
	bar	0.001		0.01
	psi	0.01		0.1
	inHg	0.1		-
	mmHg	1 -		-
	mmH₂O	0.1		-
Power supply voltage		DC12 to 24V ±10%, ripple (P-P)10% or less		
Current consumption		55mA or less		
Switch output		NPN: transistor and open collector 2 p	point PNP: transisto	or and open collector 2 point
		Max. load current: 80mA	Max. load cur	rent: 80mA
		Max. power supply voltage: 30V DC	Max. power si	upply voltage: 24V DC
		Internal voltage drop: 1V or less	Internal voltag	Internal voltage drop: 1V or less
Repeatability (Switch output)		Within ±0.2% F.S. ±1 digit		
	Hysteresis mode	Adjustable		
Hysteresis	Window comparator mode	Fixed (3digits)		
Response time		2.5 ms or less (prevent deviation: 24ms, 192ms and 768ms acceptable)		
Switch output load short circuit protection		Equipment		
Display		3½ digit LED display (sampling rate: 5 times/second)		
Repeatability		Within ±2% F.S. ± 1digit (standard temperature: 25 ±3°C)		
Indicator light		OUT1= green/OUT2= red		
Analog output (PPG-C-□NA-□ PPG-C-□PA-□)		Analog voltage output: Within 1 to 5V ± 5%	F.S. Analog voltage	output : Within 1 to 5V ± 2.5% F.S.
		(Rated pressure)	(Rated pressur	re)
		Linearity: Within ± 1% F.S.	Linearity: With	Linearity: Within ± 1% F.S.
Environmental resistance	Degree of protection	IP 65		
	Ambient temperature	Use: 0 to 50°C or to store:-20 to 60°C (no dew condensation and no freezing)		
	Ambient humidity	Use/ store: 35 to 85% RH (no dew condensation)		
	Withstand voltage	AC1000V, 1 minute (between case and lead wire)		
	Insulation resistance	50MΩor less (DC 500V applied to )		
	Vibration resistance	Double amplitude at 1.5mm to 10Hz-55Hz-10Hz for 1 minute, and X, Y, Z directions for 2 hours		
	Shock resistance	Endurance 980/s <sup>2</sup> (100G), 3 times in each X, Y, Z direction		
Temperature characteristic		Within ±2% F.S. (standard 25°C) temperature range 0 to 50°C		
Port size		6B: RC1/8 (female thread) 6N: NPT1/8 (female thread) 6G: G1/8 (female thread)		
Connector cable		Oil resistant cable (0.15mm²)		
Weight		Approx. 105g (2m connector cable) and approx. 71g (M8 connector)		

## ▲ Installation Instructions

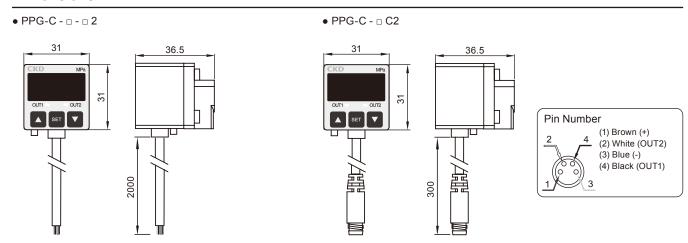


- 1. Two inlets are mounted on the back of the sensor. Please select one inlet port for easier piping.
- 2. To avoid pressure leaks, please seal with a blind plug Block the unused inlets.

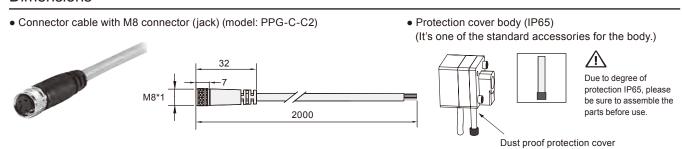
#### How to order



#### **Dimensions**

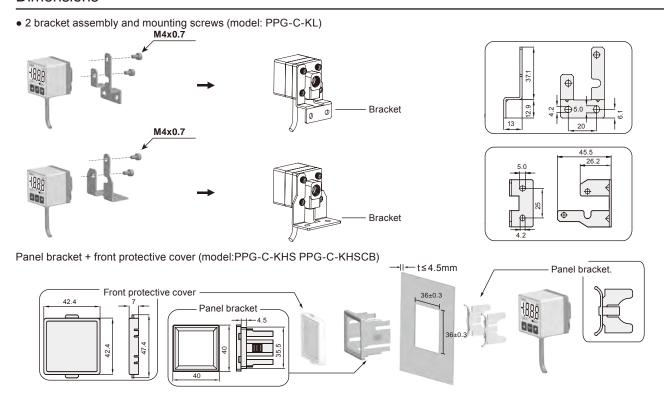


#### **Dimensions**

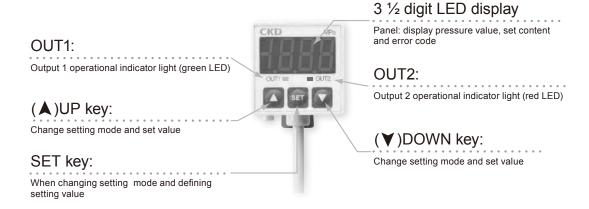


## PPG-C Series

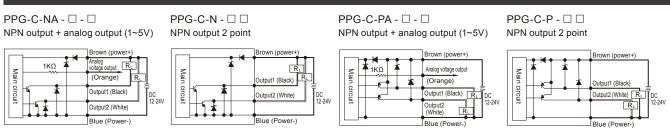
#### **Dimensions**



#### Display part description



#### Internal circuit and connection method



If the goods and their replicas, or the technology and software in this catalog are to be exported, laws require the exporter to make sure they will never be used for the development or the manufacture of weapons for mass destruction.

## Corporation

<Website> http://www.ckd.co.jp/

Head Office • Plant Overseas Sales Administration dpt. Tokyo Branch Office

Nagoya Branch Office Osaka Branch Office

2-250, Ouji, Komaki, Aichi 485-8551 2-250, Ouji, Komaki, Aichi 485-8851 4F, Bunkahousou Media Plus, 1-31-1, Hamamatsu-cho Minato-ku, Tokyo 105-0013

2-250, Ouji, Komaki, Aichi 485-8551 1-3-20, Tosabori, Nishi-ku, Osaka 550-0001

TEL(0568)77-1111 FAX(0568)77-1123 TEL(0568)77-1338 TEL(03)5402-3620 FAX(0568)77-3461 FAX(03)5402-0120

TEL(0568)77-1356 FAX(0568)77-3317

Specifications are subject to change without notice.