

# New Products

# Digital pressure sensor PPG-C Series

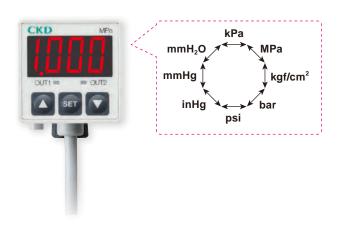


### Features

- 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

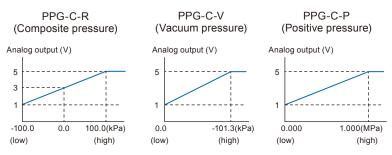


### Pressure unit can be switched



### 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



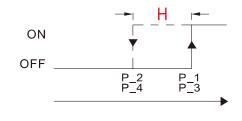
### Dust proof and water proof performance

Degree of protection: IP65



## 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".

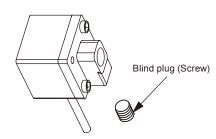
CKD Corporation CC-1176A

# PPG-C Series

## Specifications

Description		PPG-C-R	PP	G-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				
		NPN: transistor and open collector 2 point PNP: transistor		PNP: transistor	and open collector 2 point	
Switch output		Max. load current: 80mA		Max. load current: 80mA		
		Max. power supply voltage: 30V DC		Max. power supply voltage: 24V DC		
		Internal voltage drop: 1V or less Internal voltage drop: 1V or less		e drop: 1V or less		
Repeatability (Switch output)		Within ±0.2% F.S. ±1 digit				
Hysteresis	Hysteresis mode	Adjustable				
	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		3 <sup>1</sup> / <sub>2</sub> 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 pressure)		
		Linearity: Within ± 1% F.S.		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	$50 M\Omega or$ 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			, Y, Z direction	
Temperature characteristic		Within $\pm 2\%$ 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 (0.15mm <sup>2</sup> )				
Weight		Approx. 105g (2m connector cable) and approx. 71g (M8 connector)				

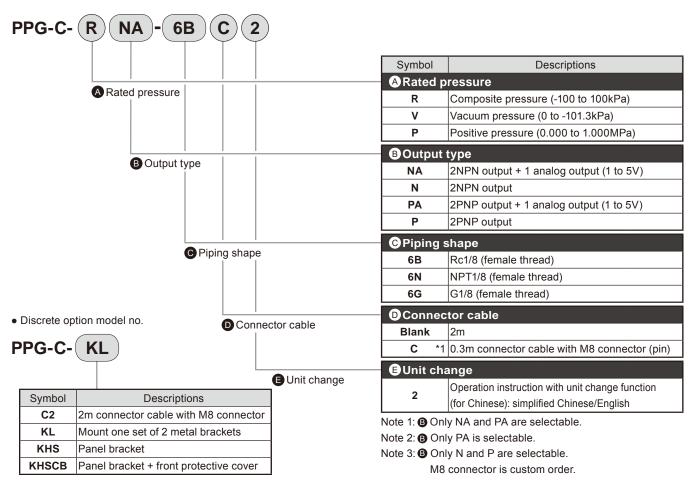
# ▲ Installation Instructions



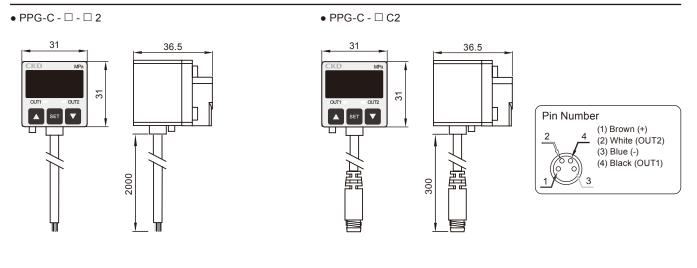
- 1. Two inlets are mounted on the back of the sensor. Please select one inlet port for easier piping.
- 2. To avoid pressure leaks, please seal with a blind plug Block the unused inlets.



How to order

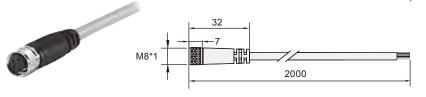


#### Dimensions



### Dimensions

• Connector cable with M8 connector (jack) (model: PPG-C-C2)



• Protection cover body (IP65) (It's one of the standard accessories for the body.)

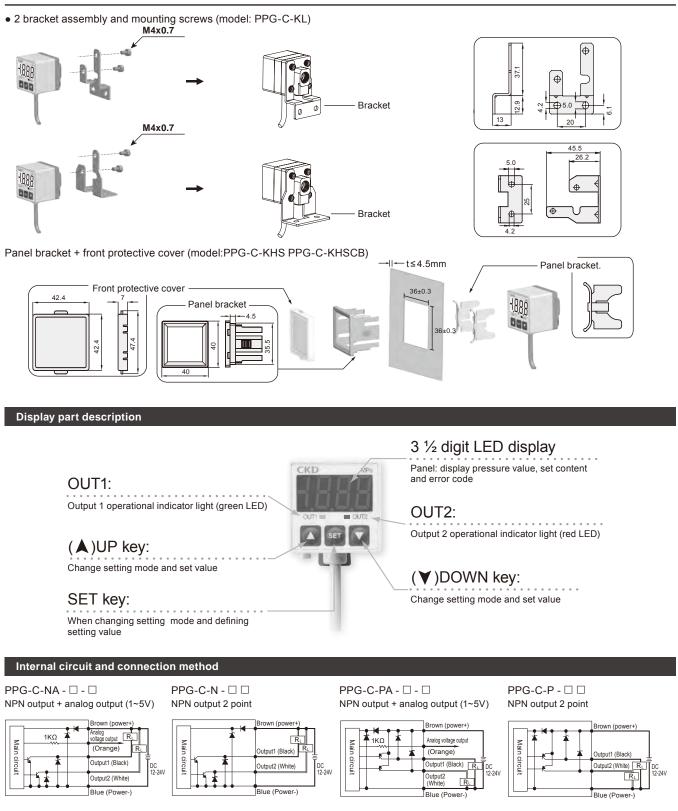


Due to degree of protection IP65, please be sure to assemble the parts before use.

Dust proof protection cover

# PPG-C Series

#### Dimensions



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