

# DPSA Series

Small size, High accuracy pressure control digital pressure sensor

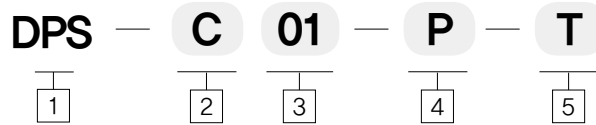
Sensor  
& Switch

DPSA Series



- High accuracy digital pressure sensor
- High brightness LCD display.
- High resolution : 1/1000
- Convertible pressure unit
  - Compound pressure : kPa, kgf/cm<sup>2</sup>, bar, psi, mmHg, mmH<sub>2</sub>O, inHg
  - Standard pressure : kPa, kgf/cm<sup>2</sup>, bar, psi, Mpa
- Various output modes : Hysteresis mode, One point setting mode, Independent 2 output mode, Window comparative output mode
- Analog output(1-5VDC) scale function
- Reverse power polarity and overcurrent protection circuit
- Zero-point adjustment function
- Peak and Bottom hold display

## How to Order



### 1 Series

DPS : Digital Pressure Sensor

### 2 Pressure

R	Static Pressure
C	(Vacuum, Low Pressure)

### 3 Pressure Display Range

01	100kPa
1	1000kPa(1MPa)

### 4 Output specification

Blank	NPN Open Collector Out
P	PNP Open Collector Out

### 5 Option

Blank	None (Includes Bracket A, Bracket B)
T	Bracket holder + Window cover + Window holder

※ Cover only order number : THP-01

## Specifications

Pressure type		Gauge pressure	
		Standard pressure	Compound pressure
Model	NPN Open collect output	DPSA-R1	DPSA-C01
	PNP Open collect output	DPSA-R1P	DPSA-C01P
Rated pressure gauge		-100~1,000kPa	-100.0~100.0kPa
Display and set pressure range		-100~1,100kPa	-101.3~110.0kPa
Max. pressure range		1.5MPa	300kPa
Applied fluid		Air, Non-corrosive gas	
Power supply		12-24VDC +- 10%(Ripple P-P : Max 10%)	
Current consumption		Max 40mA (with no load)	
Control output		NPN or PNP open collect output (Load voltage: Max 30VDC Load current: Max 100mA, Residual voltage: Max 2V)	
	Hysteresis <sup>*1</sup>	1 digit fixed(2 digits for psi unit)	
	Repeat error	±0.2% F.S. ±1digit	±0.2% F.S. ±2digit
	Response time	Selectable 2.5ms, 5ms, 100ms, 500ms	
	Short circuit protection	Built in	
Analog output		• Output voltage : 1-5VDC +-2% F.S. • zero point : Within 1VDC +-2% F.S. • Output impedance: 1K Ω	
Display digit		3½ digit LCD	
Display method		7 segment LCD	
Min. display interval		1digit( psi unit : 2 digit)	
Pressure unit		kPa, Mpa, kgf/cm <sup>2</sup> , bar, psi	kPa, kgf/cm <sup>2</sup> , bar, psi, mmHg, mmH <sub>2</sub> O, inHg
Display accuracy		25°C : Max +-2% F.S.	
Vibration		15mm Amplitude at frequency of 10 to 55HZ FOR 1 Min. in each or of X,Y,Z directions for 2 hours.	
Environment	Ambient temperature	'Use : 0~50°C, storage : -10~60°C ( Be not freezing or consensation)	
	Abbient humidity	35~85% RH, storage : 35~85 RH	
Material		Case : PC , Pressure port : SUS	
Protection		IP40	
Cable		4mm,5-wire,2M(AWG26,core dia.:0.08mm, Number of core : 30, Insulation out dia.: 1.0mm)	
APPROVAL		CE	
Weight <sup>*2</sup>		Approx. 160g(Approx. 60g)	

\*1. In hysteresis output mode, it is variable.

\*2. The weight is in packed condition and parenthesized is body only.

\* F.S(Full Scale) : Rated pressure

\* The environmental conditions of use are not freezing or condensation.