Panasonic Industry / Automation
Controls

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Pressure Sensors / Flow Sensors

Pressure Sensors / Flow Sensors   >

Dual Display Digital Pressure
Sensor [For Gas] DP-100   >

DP-102A

Pressure Digital Display   >

Pressure Head-separated   >

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Purchase Support &
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Technical inquiry

usiness inquiry

DP-102A │ Dual Display Digital Pressure Sensor [For Gas] DP-100

*Photo may vary from actual product.

RoHS compliant   ?

ct Number	DP-102A
Number	DP-102A
roduct	Dual Display Digital Pressure Sensor [For Ga

Other inquiry

Details | Standard pressure port type

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Catalog/ Datasheet | **CAD** | **Manual**

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Technical inquiry | Business inquiry

Other inquiry

Spec Detail ▼ | **Combination Products (Options)** ▼

As of April 26, 2025 (JST)

*Specifications and design of the products are subject to change without notice for the product improvement.

Spec Detail

Specifications and design of the products are subject to change without notice for the product improvement.

Item	Specifications
Product Number	DP-102A
Part Number	DP-102A
Products Name	Dual Display Digital Pressure Sensor [For Gas]
Product details	Standard pressure port type
Regulatory compliance and certification	CE Marking (E Directive, RoH

Item	Specifications
	Download

Item	Specifications
Type of pressure	Gauge pressure
Rated pressure range	-0.100 to +1.000 MPa
Set pressure range	-0.101 to +1.010 MPa -101 to +1,010 kPa -1.03 to +10.30 kgf/cm^2 -1.01 to +10.10 bar -14.6 to +146.4 psi
Pressure withstandability	1.5 MPa
Applicable fluid	Non-corrosive gas
Supply voltage	12 to 24 V DC ±10 % Ripple P-P 10 % or less
Power consumption	Normal operation : 720 mW or less (Current consumption 30 mA or less at 24 V supply voltage) ECO mode : 480 mW or less at STD (Current consumption 20 mA or less at 24 V supply voltage) 360 mW or less at FULL (Current consumption 15 mA or less at 24 V supply voltage)
Comparative output	<NPN output> NPN open-collector trans...

Item	Specifications

Catalog/ Datasheet	CAD	Manual

		(between comparative output and 0 V) - Residual voltage : 2 V or less (at 100 mA sink current)
Comparative output : Output operation		NO / NC (selectable by key operation)
Comparative output : Output modes		EASY mode / Hysteresis mode / Window comparator mode
Comparative output : Hysteresis		Minimum 1 digit (variable)(however, 2 digits when using psi unit)
Comparative output : Repeatability		±0.2 % F.S. (within ±2 digits)
Comparative output : Response time		2.5 ms, 5 ms, 10 ms, 25 ms, 50 ms, 100 ms, 250 ms, 500 ms, 1,000 ms, 5,000 ms, selectable by key operation
Comparative output : Short-circuit protection		Incorporated
External input		<NPN output> ON voltage : 0.4 V DC or less OFF voltage : 5 to 30 V DC, or open Input impedance : 10 kΩ approx.

Item	Specifications

Catalog/ Datasheet	**CAD**	**Manual**

Item	Specifications
Analog voltage output	0.6 to 5 V Zero point : within 1 V ±5 % F.S. Span : within 4.4 V ±5 % F.S. Linearity : within ±1 % F.S. Output impedance : 1 kΩ approx.
Analog current output	Output current : 2.4 to 20 mA Zero point : 4 mA ±5 % F.S. Span : 17.6 mA ±5 % F.S. Linearity : within ±1 % F.S. Load resistance : 250 Ω (max.)
Display	4 digits + 4 digits 3-color LCD display (Display refresh rate : 250 ms, 500 ms, 1,000 ms, selectable by key operation)
Display : Displayable pressure range	-0.101 to +1.010 MPa -101 to +1,010 kPa -1.03 to +10.30 kgf/cm^2 -1.01 to +10.10 bar -14.6 to +146.4 psi
Indicator	Orange LED (Comparative output 1 operation indicator : Lights up when comparative

Item	Specifications

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Catalog/ Datasheet   **CAD**   **Manual**

Item	Specifications
	up when setting)
Protection	IP40 (IEC)
Ambient temperature	-10 to +50 ℃ +14 to +122 °F, Storage : -10 to +60 ℃ +14 to +140 °F
Ambient humidity	35 to 85 % RH (No dew condensation or icing allowed), Storage : 35 to 85 % RH
Voltage withstandability	1,000 V AC for one min. between all supply terminals connected together and enclosure
Insulation resistance	50MΩ or more with 500 V DC megger between all supply terminals connected together and enclosure
Vibration resistance	10 to 500 Hz frequency, 3 mm 0.118 in double amplitude or maximum acceleration 196 m/s^2, in X, Y and Z directions for two hours each (when panel is mounted: 10 to 150 Hz frequency,

Item	Specifications

Item	Specifications
	m/s^2, in X, Y and Z directions for two hours each)
Shock resistance	100 m/s^2 acceleration (10 G approx.) in X, Y and Z directions three times each
Temperature characteristics	Within ±1 % F.S. (at +20 °C +68 °F)
Pressure port	M5 female thread + R (PT) 1/8 male thread
Material	Enclosure : PBT (glass fiber reinforced), LCD display : Acrylic, Pressure port : Stainless steel (SUS303), Mounting threaded part : Brass (nickel plated), Switch part : Silicone rubber
Connecting method	Connector
Cable length	Total length up to 100 m 328.084 ft (less than 30 m 98.425 ft when conforming to CE marking) is possible with 0.3 mm^2, or more, cable

Item	Specifications		
	Download		
	Catalog/ Datasheet	CAD	Manual
	approx.		
Accessories	CN-14A-C2 (Connector attached cable 2 m 6.562 ft): 1pc. (excluding M8 plug-in connector type)		

Combination Products (Options)

	Model Number	Product Number	Product
No image	CN-14A	CN-14A	-
No image	CN-14A-C1	CN-14A-C1	-
No image	CN-14A-C2	CN-14A-C2	-
No image	CN-14A-C3	CN-14A-C3	-

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	Catalog/ Datasheet	**CAD**	**Manual**

Sensor [For Gas] DP-100

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DP-101A｜Dual Display Digital Pressure Sensor [For Gas] DP-100	>
DP-101-E-P｜Dual Display Digital Pressure Sensor [For Gas] DP-100	>

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