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Pressure Sensors / Flow Sensors

Pressure Sensors / Flow Sensors >

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

DP-101

Pressure Digital Display >

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DP-101 | Dual Display Digital Pressure Sensor [For Gas] DP-100



*Photo may vary from actual product.



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Product Number	DP-101
Model Number	DP-101
Product Name	Dual Display Digital Pressure Sensor [For Gas]



Other inquiry

Details

Standard pressure port type

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- 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-101
Part Number	DP-101
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
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Type of pressure		Gauge pressure
Rated pressure range		-100.0 to +100.0 kPa
Set pressure range		-101.0 to +101.0 kPa -1.030 to +1.030 kgf/cm ² -1.010 to +1.010 bar -14.64 to +14.64 psi -757 to +757 mmHg -29.8 to 29.8 inHg
Pressure withstandability		500 kPa
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)



Item		Specifications
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Comparative output		- Maximum sink current : 100 mA - Applied voltage : 30 V DC or less (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		±0.1 % 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		-
Analog voltage output		-



Item		Specifications
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Display		3-color LED display (Display refresh rate : 250 ms, 500 ms, 1,000 ms, selectable by key operation)
Display : Displayable pressure range		-101.0 to +101.0 kPa -1.030 to +1.030 kgf/cm ² -1.010 to +1.010 bar -14.64 to +14.64 psi -757 to +757 mmHg -29.8 to 29.8 inHg
Indicator		Orange LED (Comparative output 1 operation indicator, comparative output 2 operation indicator : Lights up when each comparative output is ON)
Protection		IP40 (IEC)
Ambient temperature		-10 to +50 °C +14 to +122 °F , Storage : -10 to +60 °C +14 to +140 °F
Ambient humidity		35 to 85 % RH (No dew condensation or icing allowed), Storage : 35 to 85 % RH



Item		Specifications
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		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, 0.75 mm 0.030 in double amplitude or maximum acceleration 49 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 ±0.5 % F.S. (at +20 °C +68 °F)
Pressure port		M5 female thr + R (PT) 1/8 male



Item		Specifications
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Material		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
Weight		Net weight: 40 g approx., Gross weight: 130 g 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
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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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