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Pressure Sensors / Flow Sensors

Pressure Sensors / Flow Sensors >

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

DP-101A

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

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*Photo may vary from actual product.



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Technical inquiry

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| | | |
|---------------|----------------|--|
| Other inquiry | Product Number | DP-101A |
| | Part Number | DP-101A |
| | Product | Dual Display Digital Pressure Sensor [For Gas] |
| | Details | Standard pressure port type |
| | Product Name | Dual Display Digital Pressure Sensor [For Gas] DP-101A |

Product Us

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-101A |
| Part Number | DP-101A |
| Products Name | Dual Display Digital Pressure Sensor [For Gas]  |



| Item | Specifications |
|---|--|
| Product details | Standard pressure port type |
| Regulatory compliance and certification | CE Marking (EMC Directive, RoHS Directive), UKCA Marking (EMC Regulations, RoHS Regulations) |
| 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) |



| Item | Specifications |
|---|--|
| | 360 mW or less at FULL (Current consumption 15 mA or less at 24 V supply voltage) |
| Comparative output | <p><NPN output> NPN open-collector transistor</p> <ul style="list-style-type: none"> - 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  |

| Item | Specifications |
|--------------------------------------|--|
| 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. Input time : 1 ms or more |
| Analog voltage output | Output voltage : 1 to 5 V DC Zero point : within 3 V ±5 % F.S. Span : within 4 V ±5 % F.S. Linearity : within ±1 % F.S. Output impedance : 1 kΩ approx. |
| Analog current output | Output current : 4 to 20 mA Zero point : 12 mA ±5 % F.S. Span : 16 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 | -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 |



| Item | Specifications |
|--------------------------|---|
| | psi -757 to +757 mmHg -29.8 to 29.8 inHg |
| Indicator | Orange LED (Comparative output 1 operation indicator : Lights up when comparative output is ON, Analog voltage output operation indicator : Lights up when setting) |
| 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 |
| 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 |






| Item | Specifications |
|-----------------------------|--|
| 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 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 |



| Item | Specifications |
|-------------------|--|
| 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 |
|---|---------------------------|----------------|---------|
|  | CN-14A | CN-14A | - |
|  | CN-14A-C1 | CN-14A-C1 | - |
|  | CN-14A-C2 | CN-14A-C2 | - |



| | Model Number | Product Number | Product |
|---------------------|---------------------------|----------------|---------|
| <div>No image</div> | CN-14A-C3 | CN-14A-C3 | - |

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- CX-491 | Compact Photoelectric Sensor CX-400 Ver.2 >

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