

DPH-101-M5-C5 | Head-separated Dual Display Digital Pressure Sensor [For Gas] DPS-400 / DPH-100



※Photo may vary from actual product.

RoHS compliant

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| Product Number | DPH-101-M5-C5 |
| Part Number | DPH-101-M5-C5 |
| Product | Head-separated Dual Display Digital Pressure Sensor [For gas] |
| Details | Sensor head |
| Product name | Head-separated Dual Display Digital Pressure Sensor [For Gas] DPS-400 / DPH-100 |

Spec Detail

As of October 10, 2023

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

| Item | Specifications |
|---------------------------------|---|
| Product Number | DPH-101-M5-C5 |
| Part Number | DPH-101-M5-C5 |
| CE marking directive compliance | EMC Directive, RoHS Directive |
| Type of pressure | Gauge pressure |
| Rated pressure range | -100.0 to +100.0 kPa |
| Pressure withstandability | 500 kPa |
| Applicable fluid | Air, non-corrosive gas |
| Supply voltage | 12 to 24 V DC \pm 10 % Ripple P-P 10 % or less |
| Current consumption | 15 mA or less |
| Output voltage | Output voltage : 1 to 5 V (over rated pressure range) Zero point : within 1 V \pm 2.5 % F.S. (vacuum / positive pressure type) within 3 V \pm 3 % F.S. (compound pressure type) Span : within 4 V \pm 3.5 % F.S. Linearity : within \pm 0.5 % F.S. Output impedance : 1 k Ω approx. |
| Analog voltage output | <p>High pressure (positive / compound pressure type) High vacuum (vacuum pressure type)</p> |
| Protection | IP40 (IEC) |
| Ambient temperature | 0 to +50 °C +32 to +122 °F (No dew condensation allowed), Storage : -10 to +60 °C +14 to +140 °F |
| Ambient humidity | 35 to 85 % RH, Storage : 35 to 85 % RH |
| Voltage withstandability | 1,000 V AC for one min. between all supply terminals connected together and enclosure |
| Insulation resistance | 50 M Ω , or more, with 500 V DC megger between all supply terminals connected together and enclosure |
| Vibration resistance | 10 to 500 Hz frequency, amplitude 3 mm 0.118 in or maximum acceleration 196 m/s ² , in X, Y and Z directions for two hours each |

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| Shock resistance | 1,000 m/s ² acceleration (100 G approx.) in X, Y and Z directions for three times each |
| Temperature characteristics | Over ambient temperature range 0 to +50 °C +32 to +122 °F : within ±2 % F.S. of detected pressure at +25 °C +77 °F |
| Pressure port | M5 male thread (for installing gasket) |
| Material | Front case : PBT, Rear case : PBT (glass fiber reinforced), Pressure port : Stainless steel (SUS303), O-ring : NBR Pressure element : Silicon diaphragm, PPS |
| Connecting method | Connector |
| Cable | 0.2 mm ² 4-core oil resistant cabtyre cable (Models with "-R" affixed to the Model No. have bending-resistant, oil-resistant cabtyre cable) |
| Cable extension | Extension up to total 10 m 32.808 ft is possible with 0.2 mm ² , or more, cable. |
| Weight : Net weight | Head 6 g approx. / Cable 40 g approx. |
| Weight : Gross weight | 70 g approx. |
| Accessories | Connector (e-CON) : 1 pc. |
| Remark | Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +25 °C +77 °F . The sensor head can be used independently. |

Accessories



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|----------------|------------------|
| Product Number | CN-EP2 |
| Part Number | CN-EP2 |
| Product name | Connector |