



DP-002-P | Digital Pressure Sensor [For Gas] DP-0



※Photo may vary from actual product.

Product Number	DP-002-P
Part Number	DP-002-P
Product	Digital Pressure Sensor
Details	For gas
Product name	Digital Pressure Sensor [For Gas] DP-0
Features	Simple and easy operation Redesigned for improvement of pressure sensor usability from ground up

Spec Detail

As of July 23, 2020

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

Item	Specifications
Product Number	DP-002-P
Part Number	DP-002-P
CE marking directive compliance	EMC Directive, RoHS Directive
Type of pressure	Gauge pressure
Rated pressure range	0.000 to +1.000 Mpa
Set pressure range	-0.010 to +1.010 MPa -0.1 to +10.30 kgf/cm ² -0.1 to + 10.10 bar -0.1 to +146.5 psi
Pressure withstandability	1.5 MPa
Applicable fluid	Air, non-corrosive gas
Selectable units	MPa, kgf/cm ² , bar, psi
Supply voltage	12 to 24 V DC ±10 % Ripple P-P 10 % or less
Power consumption	30 mA or less
Comparative output	PNP open-collector transistor - Maximum source current: 50 mA - Applied voltage: 30 V DC or less (between comparative output and +V) - Residual voltage: 2 V or less (at 50 mA source current)
Comparative output : Output operation	Selectable either NO or NC by key operation
Comparative output : Hysteresis	Minimum 2 digits (variable)
Comparative output : Repeatability	±0.4 % F.S. (within ±4 digits)
Comparative output : Response time	2.5 ms, 25 ms, 250 ms, selectable by key operation
Comparative output : Short-circuit protection	Incorporated
Display	3 + 1/2 digits, 3-color (white / red / pink) LCD display (Display update period: 250 ms)
Display : Displayable pressure range	-0.010 to +1.010 MPa -0.1 to +10.30 kgf/cm ² -0.1 to + 10.10 bar -0.1 to +146.5 psi
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	500 V AC for one min. between all supply terminals connected together and enclosure
Insulation resistance	50 MΩ or more with 500 V DC megger between all supply terminals connected together and enclosure
Vibration resistance	10 to 150 Hz frequency, amplitude 0.75 mm 0.030 in 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
Pollution degree	2
Overvoltage category	I
Usable altitude	2,000 m 6,562 ft or less
Temperature characteristics(+20°C standard)	+10 to +40°C +50 to +104 °F: Within ±2 % F.S. 0 to +50°C 32 to +122°F: Within ±5 % F.S.
Grounding method	Floating
Pressure port	M5 female thread
Material	Enclosure: PBT (glass fiber reinforced) LCD display: Acrylic Pressure port: Brass (nickel plated) Mounting threaded part: Brass O-ring: Nitrile rubber (NBR) Key section: Polycarbonate
Weight	25 g approx.
Accessories	CN-14A-C2 (Connector attached cable 2 m 6.562 ft) : 1 pc.
Remark	Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C +68 °F.

Accessories



Product Number	CN-14A
Part Number	CN-14A
Product name	Connector



Product Number	CN-14A-C1
Part Number	CN-14A-C1
Product name	Connector-attached cable



Product Number	CN-14A-C2
Part Number	CN-14A-C2
Product name	Connector-attached cable



Product Number	CN-14A-C3
Part Number	CN-14A-C3
Product name	Connector-attached cable



Product Number	CN-14A-C5
Part Number	CN-14A-C5
Product name	Connector-attached cable



Product Number	CN-14A-R-C1
Part Number	CN-14A-R-C1
Product name	Connector attached cable (Flexible cable)



Product Number	CN-14A-R-C2
Part Number	CN-14A-R-C2
Product name	Connector attached cable



Product Number	CN-14A-R-C3
Part Number	CN-14A-R-C3
Product name	Connector attached cable



Product Number	CN-14A-R-C5
Part Number	CN-14A-R-C5
Product name	Connector attached cable

(Flexible cable)



Product Number **MS-DP1-1**

Part Number **MS-DP1-1**

Product name **Mounting bracket**

(Flexible cable)



Product Number **MS-DP1-3**

Part Number **MS-DP1-3**

Product name **Front protection cover**

(Flexible cable)



Product Number **MS-DP1-5**

Part Number **MS-DP1-5**

Product name **Mounting bracket**



Product Number **MS-DP1-7**

Part Number **MS-DP1-7**

Product name **Conversion bushing**



Product Number **MS-DP1-8**

Part Number **MS-DP1-8**

Product name **Panel mounting bracket**