Panasonic

DP-102-E-P | Dual Display Digital Pressure Sensor [For Gas] DP-100



actual product.

Product Number	DP-102-E-P
Part Number	DP-102-E-P
Product	Dual Display Digital Pressure Sensor [For Gas]
Details	Standard pressure port type
Product name	Dual Display Digital Pressure Sensor [For Gas] DP- 100
Features	Dual 3-color display makes operation easier!

Spec Detail

As of August 10, 2020

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

Item	Specifications

Product Number DP-102-E-P

Part Number DP-102-E-P

CE marking directive compliance EMC Directive, RoHS Directive

Type of pressure Gauge pressure

Rated pressure range -0.100 to +1.000 MPa

> -0.101 to +1.010 MPa -101 to +1,010 kPa -1.03 to +10.30 kgf/cm²

Set pressure range -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 \pm 10 % Ripple P-P 10 % or less

Normal operation :

720 mW or less (Current consumption 30 mA or less at 24 V supply

voltage) ECO mode :

Power consumption 480 mW or less at STD (Current consumption 20 mA or less at 24 V

360 mW or less at FULL (Current consumption 15 mA or less at 24 V

supply voltage)

<PNP output>

PNP open-collector transistor

- Maximum source current : 100 mA - Applied voltage : 30 V DC or less (between comparative output and +V) Comparative output

- Residual voltage: 2 V or less (at 100 mA source 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)

2.5 ms, 5 ms, 10 ms, 25 ms, 50 ms, 100 ms, 250 ms, 500 ms, 1,000 ms, Comparative output : Response time

5,000 ms, selectable by key operation

Comparative output : Short-circuit

protection

Incorporated

External input

Analog voltage output

Analog current output

4 digits + 4 digits 3-color LCD display

Display (Display refresh rate: 250 ms, 500 ms, 1,000 ms, selectable by key

operation)

-0.101 to +1.010 MPa

-101 to +1,010 kPa

Display: Displayable pressure range -1.03 to +10.30 kgf/cm²

-1.01 to +10.10 bar -14.6 to +146.4 psi

Orange LED

Indicator (Comparative output 1 operation indicator, comparative output 2 operation

indicator: Lights up when each comparative output is ON)

IP40 (IEC) Protection

Ambient temperature -10 to +50 °C +14 to +122 °F, Storage : -10 to +60 °C +14 to +140 °F

35 to 85 % RH (No dew condensation or icing allowed), Storage : 35 to 85 Ambient humidity

1,000 V AC for one min. between all supply terminals connected together Voltage withstandability

and enclosure

 $50 \text{M}\Omega$ or more with 500 V DC megger between all supply terminals Insulation resistance

connected together and enclosure

10 to 500 Hz frequency, 3 mm 0.118 in double amplitude or maximum acceleration 196 m/s², 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 amplitude or maximum acceleration 49 m/s², in X, Y and Z directions for

100 m/s² acceleration (10 G approx.) in X, Y and Z directions three times Shock resistance

each

Within ±1 % F.S. Temperature characteristics

(at +20 °C +68 °F)

Pressure port M5 female thread + G 1/8 male thread

Enclosure: PBT (glass fiber reinforced), LCD display: Acrylic, Pressure Material

port : Stainless steel (SUS303), Mounting threaded part : Brass (nickel

plated), Switch part : Silicone rubber

Connecting method Connector

Total length up to 100 m 328.084 ft (less than 30 m 98.425 ft when Cable length

conforming to CE marking) is possible with 0.3 mm², or more, cable

Weight Net weight: 40 g approx., Gross weight: 130 g approx.

CN-14A-C2 (Connector attached cable 2 m 6.562 ft): 1pc. (excluding M8 Accessories

plug-in connector type)

Accessories

Vibration resistance

Product Number	CN-14A	Product Number	CN-14A-C1	Product Number	CN-14A-C2
Part Number	CN-14A	Part Number	CN-14A-C1	Part Number	CN-14A-C2
Product name	Connector	Product name	Connector- attached cable	Product name	Connector- attached cable
No image		No image		No image	
Product Number	CN-14A-C3	Product Number	CN-14A-C5	Product Number	CN-14A-R-C1
Part Number	CN-14A-C3	Part Number	CN-14A-C5	Part Number	CN-14A-R-C1
Product name	Connector- attached cable	Product name	Connector- attached cable	Product name	Connector attached cable (Flexible cable)
No image		No image		No image	
Product Number	CN-14A-R-C2	Product Number	CN-14A-R-C3	Product Number	CN-14A-R-C5
Part Number	CN-14A-R-C2	Part Number	CN-14A-R-C3	Part Number	CN-14A-R-C5
Product name	Connector attached cable (Flexible cable)	Product name	Connector attached cable (Flexible cable)	Product name	Connector attached cable (Flexible cable)
No image		No image		No image	
Product Number	DPX-04	Product Number	MS-DP1-1	Product Number	MS-DP1-2
Part Number	DPX-04	Part Number	MS-DP1-1	Part Number	MS-DP1-2
Product name	Front protection cover	Product name	Mounting bracket	Product name	Panel mounting bracket
No image		No image		No image	
Product Number	MS-DP1-3	Product Number	MS-DP1-4	Product Number	MS-DP1-5
Part Number	MS-DP1-3	Part Number	MS-DP1-4	Part Number	MS-DP1-5
Product name	Front protection cover	Product name	Panel mounting bracket	Product name	Mounting bracket
No image		No image		No image	
Product Number	MS-DP1-FE	Product Number	MS-DP1-FM	Product Number	MS-DP1-FN
Part Number	MS-DP1-FE	Part Number	MS-DP1-FM	Part Number	MS-DP1-FN
Product name	Flat attachment	Product name	Flat attachment	Product name	Flat attachment
No image					

Product Number MS-DP1-FR Product name Flat attachment

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