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Pressure Sensors / Flow Sensors

Pressure Sensors / Flow Sensors >

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

DP-102A-E-P

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DP-102A-E-P | 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-102A-E-P
	Part Number	DP-102A-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-102A-E-P

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-102A-E-P
Part Number	DP-102A-E-P
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	-0.100 to +1.000 MPa
Set pressure range	-0.101 to +1.010 MPa -101 to +1,010 kPa -1.03 to +10.30 kgf/cm ² -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 ±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



Item	Specifications
	mA or less at 24 V supply voltage)
Comparative output	<PNP output> PNP open-collector transistor - Maximum source current : 100 mA - Applied voltage : 30 V DC or less (between comparative output and +V) - 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)
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	<PNP output> ON voltage : 5 

Item	Specifications
	+V DC OFF voltage : 0.6 V DC or less, or open Input impedance : 10 k Ω approx. Input time : 1 ms or more
Analog voltage output	Output voltage : 0.6 to 5 V Zero point : within 1 V \pm 5 % F.S. Span : within 4.4 V \pm 5 % F.S. Linearity : within \pm 1 % F.S. Output impedance : 1 k Ω approx.
Analog current output	Output current : 2.4 to 20 mA Zero point : 4 mA \pm 5 % F.S. Span : 17.6 mA \pm 5 % F.S. Linearity : within \pm 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	-0.101 to +1.010 MPa -101 to +1,010 kPa -1.03 to +10.30 kgf/cm ² -1.01 to +10.10 bar -14.6 to +146.4 psi



Item	Specifications
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
Vibration resistance	10 to 500 Hz frequency, 3 mm 0.118 in double amplitude or maximum acceleration 196







Item	Specifications
	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 ±1 % F.S. (at +20 °C +68 °F)
Pressure port	M5 female thread + G 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
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



Item	Specifications
	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	-
	CN-14A-C3	CN-14A-C3	-



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