

SPECIFICATIONS

Item	Type	Standard type	With analog current output type
	Model No.	DP-M2	DP-M2A
Type of pressure		Differential pressure	
Rated pressure range		0 to 2.00 kPa.D {0 to 204 mmH ₂ O.D}	
Set pressure range		0 to 2.00 kPa.D {0 to 204 mmH ₂ O.D}	
Set pressure resolution		0.01 kPa.D {1 mmH ₂ O.D}	
Pressure withstandability		6 kPa.D {612 mmH ₂ O.D}	
Applicable fluid		Non-corrosive gas	
Selectable units		kPa, mmH ₂ O	
Supply voltage		12 to 24 V DC $^{+10}_{-15}$ % Ripple P-P 10 % or less	
Current consumption		50 mA or less	75 mA or less
Comparative output		NPN open-collector transistor • Maximum sink current: 100 mA • Applied voltage: 30 V DC or less (between comparative output and 0 V) • Residual voltage: 1 V or less (at 100 mA sink current) 0.4 V or less (at 16 mA sink current)	
	Utilization category	DC-12 or DC-13	
	Output operation	Selectable either normally open (NO) or normally closed (NC) by the key (Note)	
	Hysteresis	0.01 kPa.D {1 mmH ₂ O.D}	
	Repeatability	Within ± 1 % F.S.	
	Response time	10 ms or less	
	Short-circuit protection	Incorporated	
Analog current output			Output current: 4 to 20 mA (from 0 to 1.96 kPa.D {0 to 200 mmH ₂ O.D}) Zero-point: within 4 mA ± 1 % F.S. Span: within 16 mA ± 3 % F.S. Linearity: within ± 1 % F.S. Load resistance: 0 to 250 Ω
Display		3 digit red LED display (Sampling rate: 4 times/sec. approx.)	
Indicator	Displayable pressure range	- 0.05 to 2.10 kPa.D { - 5 to 210 mmH ₂ O.D}	
	Operation	Orange LED (lights up when the comparative output is ON)	
	Pressure unit	Red LED (The indicator corresponding to the selected unit lights up during the sensing mode.)	
	M1 setting	Red LED (blinks in the M1 setting mode)	
	M2 setting	Red LED (blinks in the M2 setting mode)	
Environmental resistance	Pollution degree	3 (Industrial environment)	
	Ambient temperature	0 to + 50 °C + 32 to + 122 °F (No dew condensation), Storage: - 10 to + 60 °C + 14 to + 140 °F	
	Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH	
	EMC	EN 50081-2, EN 50082-2, EN 61000-6-2	
	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 150 Hz frequency, 0.75 mm 0.030 in amplitude 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 for three times each		
Temperature characteristics		Over ambient temperature range 0 to + 50 °C + 32 to + 122 °F: within ± 3 % F.S. of detected pressure at + 25 °C + 77 °F	
Pressure port		$\phi 4.8$ mm $\phi 0.189$ in resin pipe	
Material		Front case: ABS, Rear case: ABS, LED display: Acrylic, Pressure port: PA	
Cable		0.18 mm ² 3-core oil resistant cabtyre cable, 2 m 6.562 ft long	0.18 mm ² 4-core oil resistant cabtyre cable, 2 m 6.562 ft long
Cable extension		Extension up to total 100 m 328.084 ft (less than 10 m 32.808 ft when conforming to CE marking) is possible with 0.3 mm ² , or more, cable.	
Weight		75 g approx.	

Note: Refer to 'Setting procedure' of PRECAUTIONS FOR PROPER USE on p.828 for more details.