GP-M250

Main Unit, Positive-pressure Type, 25 MPa

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model			GP-M250
Rated pressure			0 to +3626 PSI (0 to +25 MPa)
Possible display range			-363 to +3989 PSI (-2.50 to +27.50 MPa)
Zero-cut pressure value			±0.5% of F.S.
Burst pressure			14504 PSI (100 MPa)
Display resolution	kPa		None
	MPa		0.01
	PSI		1
	bar		0.1
	kgf/cm^2		
Fluid type			Liquid that will not corrode the liquid contact part
Type of pressure			Gage pressure
Precision			±1.0% of F.S. or less*1
Repeatability			±0.3% of F.S. or less*2
Temperature characteristics			±0.6% of F.S./10°C 50°F
Connection port			G3/4 (Changes to the R male 1/8, R male 1/4, R male 3/8, G female 1/4, NPT male 1/8, and NPT male 1/4 option adapters are available.)
Box rotation angle			Maximum 330°
Medium temperature			-20 to +100°C -4°F to +212°F (no freezing/condensation)*3
Power voltage			10-30 VDC, Ripple (P-P): 10% max, Class 2 or LPS
Current consumption			50 mA or less (when 24 V: 32 mA or less, when 12 V: 48 mA or less. Not including load)*4
Display method			4 column, digital LED, red/Vertical inversion display possible
Operation display light			Operation indicator (output 1) (orange), Operation indicator (output 2) (orange)
Hysteresis			During hysteresis mode: variable (Difference between switch-on point and switch-off point is hysteresis) During window mode: fixed (0.5% of F.S.)
Response	Control output		Selectable from 3 to 5000 ms
	Analog output		As above + 2 ms (90% response)
Output	Output 1 control output		NPN/PNP open collector (Selectable), Max. 250 mA (30 V max) Main unit residual voltage 1 V max, N.O./N.C. selectable
	Output 2 replacement type	Control output	
		Analog output	4-20 mA, maximum load resistance 500 Ω (When the electric voltage is more than 20 V)*5
Environmental resistance	Enclosure rating		IP67
	Pressure resistance		50 MPa (500 bar)
	Ambient temperature		-20 to +80 °C -4 to 176 °F (No freezing and no condensation)

	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	IEC60068-2-6 20 G (10 to 2000 Hz, 2 hours each in the X, Y, and Z axis)
	Shock resistance	IEC60068-2-27 50G (11 ms, 3 times for each of X, Y and Z direction)
Material properties	Wetted part	Pressure port: SUSXM7, Diaphragm pressure port: Al_2O_3 (Alumina), O ring: FKM
	Other parts	Housing metal portion: SUS304, SUS303, Housing plastic portion: PPSU
Applicable cable		M12 connector 4 pin
Weight		Approx. 150 g

*1 This is the value when considering linearity + hysteresis + repeatability in a stable environment of 23°C 73°F.
*2 The repeatability, based on consistent conditions, is the variation in the value that will be displayed.
*3 When the temperature of the piping exceeds 80°C 176°F, do not connect the cable.
*4 Consumption current including output is 0.6 A and under.
*5 The maximum load resistance R will be the values below in response to the electric voltage E. When 10-23V: R = $\{38 \times (E-10) + 128\}$ Ω When 23-30V: R = 622 Ω

Dimensions

* Download CAD file or product manual for larger image/text and more detail.