

Model DPM

48mm X 24mm Panel Mounting

Differential Low Pressure Gauge / Switch

Description

DPM model is ideal for the application (such as HVAC) with differential pressure, vacuum pressure, gauge pressure and especially low pressure of non-corrosive gases or air measured. Device for Low Pressure Gauge / Switch, which is using MICOM, improved Accuracy. In order to reduce to the time assembling, may use e-CON Connector.

Features




- ▶ 3-1/2 digit LED display
- ▶ 48mm X 24mm Panel Mounting Type
- ▶ e-CON Connector
- ▶ Auto Zero
- ▶ 2Ch NPN Open Collector Alarm output
- ▶ 1~5VDC or 4~20mA analog output(Adjustable Pressure Range)
- ▶ Measuring range 0~300..10kPa diff.
- ▶ 1.5%FS accuracy
- ▶ Piezoresistive silicon cell
- ▶ Use with non-corrosive, non-ionic media



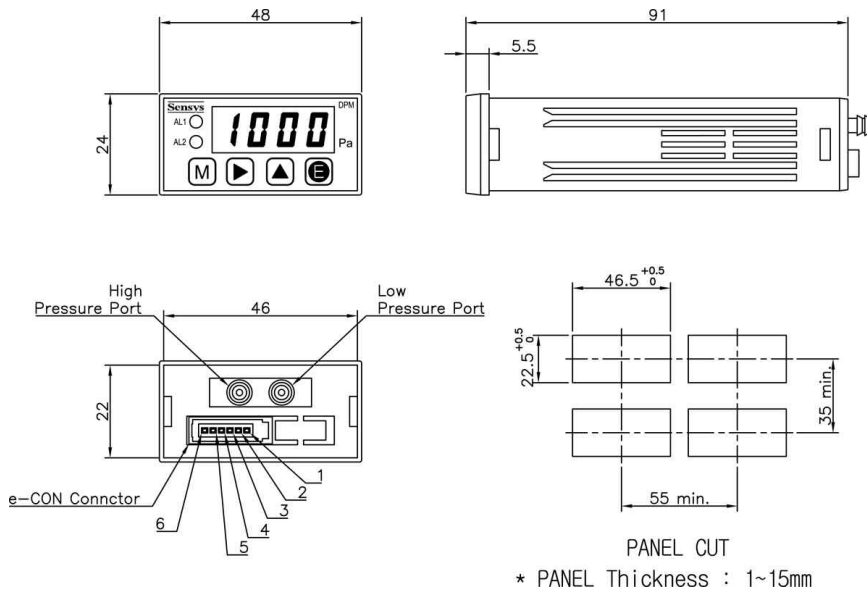
Applications

- ▶ Airflow Measurement
- ▶ Room Static Pressure
- ▶ VAV Box
- ▶ Lab/Fume Hood Control
- ▶ Clean Room Control

Specifications

	DPM  / 	DPM 
Range	0~300, 500, 750Pa 0~1, 2, 3, 5, 10kPa ±300, ±500, ±750Pa, ±1, ±2, ±3, ±5, ±10kPa	
Performance		
Accuracy	±1.5%FS ± 1digit	
Thermal Effect on Zero	±0.15%FS/°C (≥750Pa), ±0.2%FS/°C (500Pa), ±0.3%FS/°C (300Pa)	
Thermal Effect on Span	±0.15%FS/°C (≥750Pa), ±0.2%FS/°C (500Pa), ±0.3%FS/°C (300Pa)	
Compensated Temperature Range	0 ~ 50°C	
Operating Temperature Range	-10 ~ 70°C	
Electrical		
Display	3-1/2 Digit LED	
Excitation	12~24VDC±10%	
Output		
Switching Signal	NPN Open Collector TR(80mA, 24VDC)	—
Analog Signal	1~5VDC or 4~20mA (Adjustable Pressure Range)	—
Electrical Connection	Tyco Electronics AMP 6Pin e-CON Connector(Plug Connector not Include)	
Physical		
Proof Pressure	300%FS Max.	
Burst Pressure	500%FS Min.	
Pressure Port	1/8" Nipple	
Media-Wetted Materials	Brass(Ni plated), SiO ₂ , Si Rubber	

Dimension



► Analog / Alarm Output Type

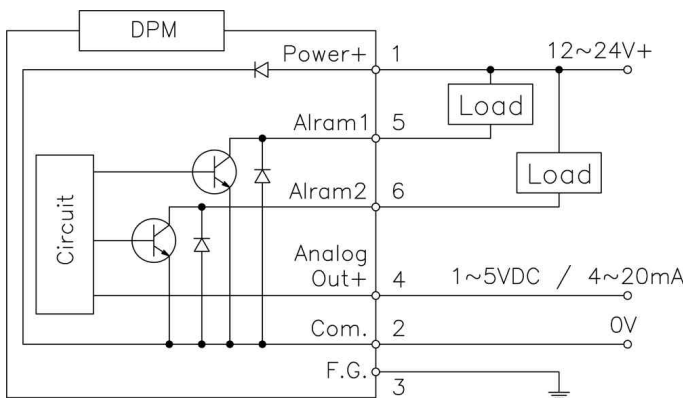
Pin No.	Connections
1	Power+ (12~24VDC)
2	Com.
3	F.G.
4	Analog output+
5	Alarm 1
6	Alarm 2

► Only Display Type

Pin No.	Connections
1	Power+ (12~24VDC)
2	Com.
3	F.G.
4	N/A
5	N/A
6	N/A

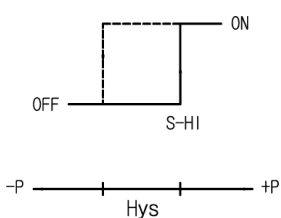
Internal Circuit Diagram

► NPN Open Collector Tr. Output

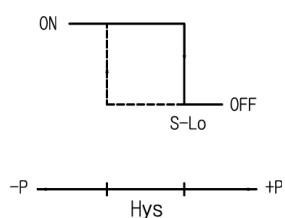


Alarm Mode

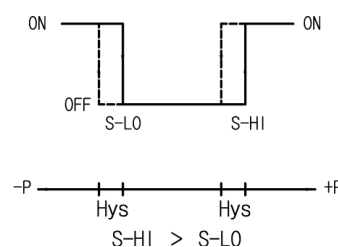
► Hi Mode



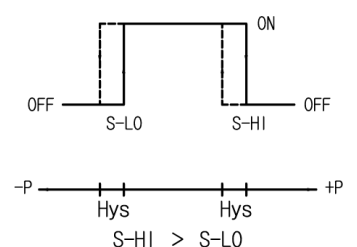
► Low Mode



► A Mode



► B Mode



e-CON Plug Connector

You can choose Tyco Electronics AMP Co, RITS Plug Connector as below table

P/N	Hold Housing Color	Cable / Wire	
		Cross-Section Areas	Diameter of Insulation
3-1473562-6	Orange	0.08~0.25mm ²	0.60~0.90mm
1-1473562-6	Red	0.1~0.5mm ²	0.90~1.00mm
1473562-6	Yellow		1.00~1.15mm
2-1473562-6	Blue		1.15~1.35mm
4-1473562-6	Green	0.2~0.6mm ²	1.35~1.60mm

Ordering Information

Model Name		DPM G 0500 A	Option
Analog Output			A : Pa R : kPa D : mmH ₂ O
E : 1~5V, 2Ch NPN Open Collector TR. G : 4~20mA, 2Ch NPN Open Collector TR. 0 : N/A			Pressure Range XXXX : 0~Range CXXX : ±Range



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