

Model DPB

48mm X 48mm Panel Mounting

Differential Low Pressure Gauge / Switch

Description

DPB 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.

Features

- ▶ CE Certified
- ▶ 3-1/2 digit LED display
- ▶ 48mm X 48mm Panel Mounting Type
- ▶ Auto Zero
- ▶ 2Ch Relay or 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

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

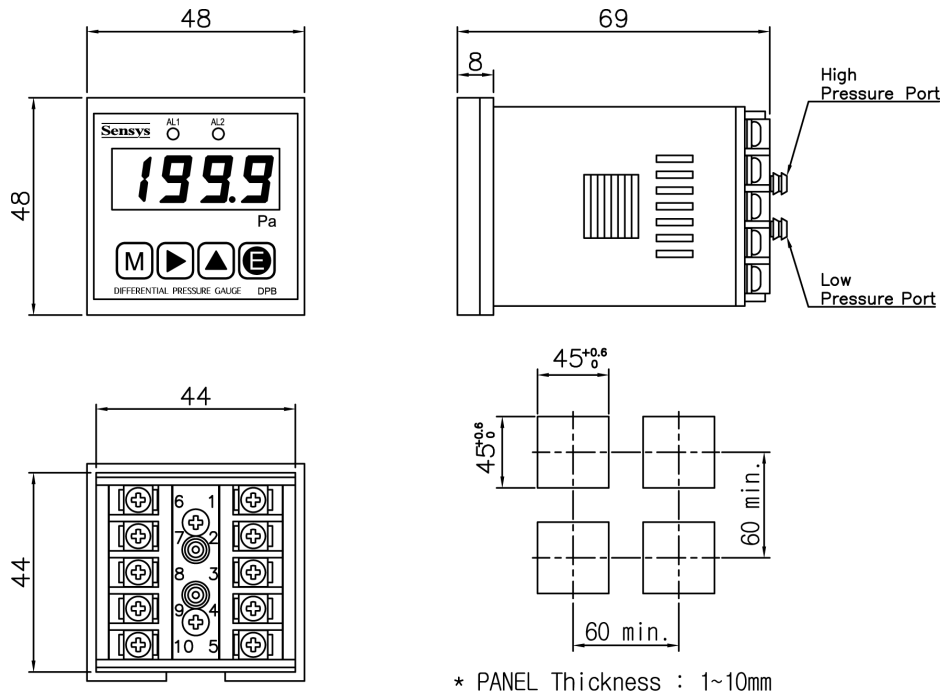
Display	3-1/2 Digit LED
Excitation	12~24VDC±10% (Relay Type : 18~24V)
Output	2 RELAY(5A 30VDC / 5A 250VAC) or NPN Open Collector TR(80mA, 24VDC)
Switching Signal	1~5VDC or 4~20mA (Adjustable Pressure Range)
Analog Signal	
Electrical Connection	Terminal

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



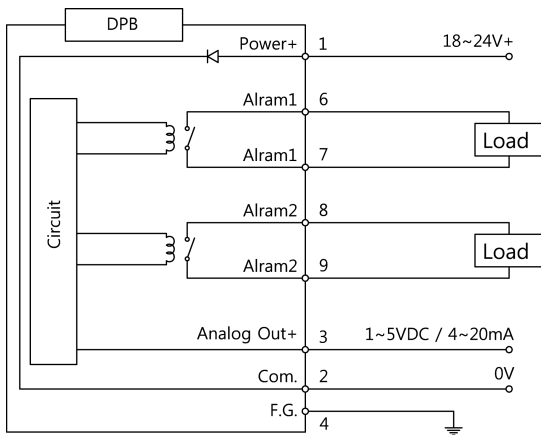
Dimension



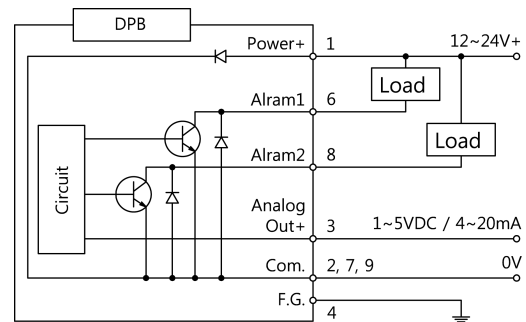
Pin No.	Connections			
1	Power+			
2	Com.			
3	Analog output+			
4	F.G.			
5	N.C.			
6	Relay Output	Alarm1	NPN TR Output	Alarm1 +
7		Alarm1		Com.
8		Alarm2		Alarm2 +
9		Alarm2		Com.
10	N.C.			

Internal Circuit Diagram

► Relay Output

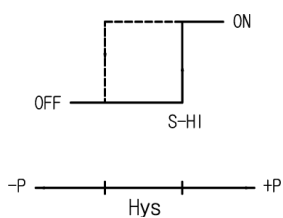


► NPN Open Collector Tr. Output

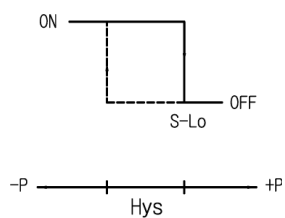


Alarm Mode

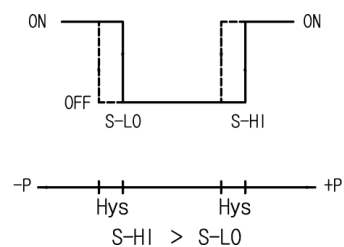
► Hi Mode



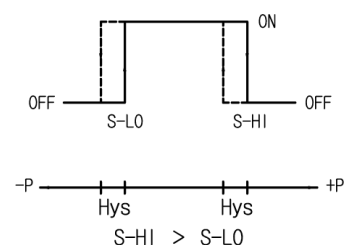
► Low Mode



► A Mode



► B Mode



Ordering Information

Model Name		DPB	D	0500	A	Option
Output						
						A : Pa
						R : kPa
						D : mmH ₂ O
						Pressure Range
						XXXX : 0~Range
						CXXX : ±Range



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· Specifications are subject to change without notice.

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