

Model DPA

48mm X 96mm Panel Mounting

Differential Ultra Low Pressure Gauge / Switch

Description

DPA 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 Ultra Low Pressure Gauge / Switch, which is using MICOM, improved Accuracy and Temperature compensation.

Features

- ▶ CE Certified
- ▶ 4 digit LED display
- ▶ 48mm X 96mm Panel Mounting Type
- ▶ Pressure Unit selection(Pa, mmH₂O, mbar)
- ▶ Auto Zero
- ▶ 2-channel Relay Alarm output
- ▶ 1~5, 0~5, 0~10, 10~0VDC, 4~20mA analog output
- ▶ Measuring range 0~50..1000Pa diff.
- ▶ 0.5..1%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

0~50, 100, 200Pa	0~300, 500, 750, 1000Pa
±50, ±100, ±200Pa	±300, ±500, ±750, ±1000Pa

Performance

Accuracy	±1%FS ± 1digit	±0.5%FS ± 1digit
Thermal Effect on Zero	±0.1%FS/°C	±0.05%FS/°C
Thermal Effect on Span	±0.1%FS/°C	±0.05%FS/°C
Compensated Temperature Range	0 ~ 50°C	
Operating Temperature Range	-10 ~ 70°C	

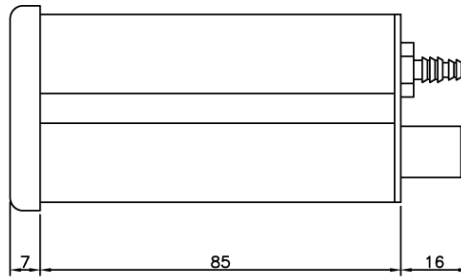
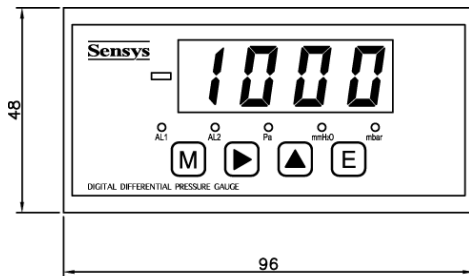
Electrical

Display	4 Digit LED
Excitation	18~26VDC
Output	
Switching Signal	2 RELAY(5A 28VDC / 10A 125VAC / 5A 250VAC)
Analog Signal	1~5VDC, 0~5VDC, 0~10VDC, 10~0VDC, 4~20mA
Electrical Connection	Terminal

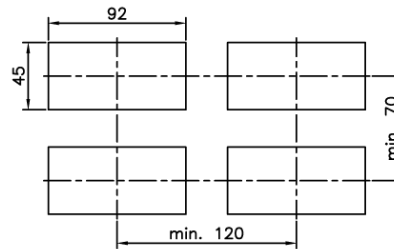
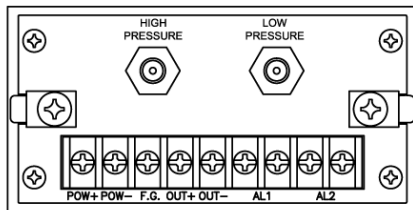
Physical

Proof Pressure	300%FS Max.
Burst Pressure	500%FS Min.
Vibration	49.1m/s ² {5G}, 10~500Hz
Shock	490m/s ² {50G}
Pressure Port	1/8", 3/16" Nipple
Media-Wetted Materials	Brass(Ni plated), SiO ₂ , Si Rubber

Dimension



Pin No.	Connections
POW+	Excitation +
POW-	Excitation -
F.G.	Earth
OUT+	Analog Output +
OUT-	Analog Output -
AL1	Alarm1 Relay
AL2	Alarm2 Relay

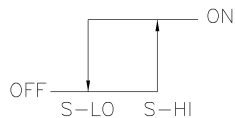


* Panel Thickness : 0.8~5

Panel Hole

Alarm Mode

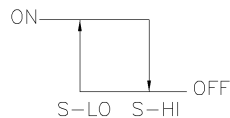
► Hi Mode



-Pressure +Pressure

*. $S-HI \geq S-LO$

► Low Mode



-Pressure +Pressure

*. $S-HI \geq S-LO$

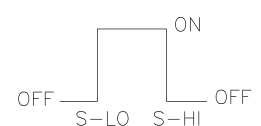
► A Mode



-Pressure +Pressure

*. $S-HI \geq S-LO$

► B Mode



-Pressure +Pressure

*. $S-HI \geq S-LO$

Ordering Information

Model Name	DPA B 0050	Option
Output	Pressure Range	
B : 0~5V	0050 : 0~50Pa	C0050 : -50~50Pa
D : 1~5V	0100 : 0~100Pa	C0100 : -100~100Pa
K : 0~10V	0200 : 0~200Pa	C0200 : -200~200Pa
W : 10~0V	0300 : 0~300Pa	C0300 : -300~300Pa
F : 4~20mA	0500 : 0~500Pa	C0500 : -500~500Pa
	0750 : 0~750Pa	C0750 : -750~750Pa
	1000 : 0~1000Pa	C1000 : -1000~1000Pa



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