

# Model DPE

## 48 X 24mm Panel Mounting Digital Differential Pressure Gauge

### Description

DPE models are ideal for applications (such as HVAC) that measure differential pressure, vacuum pressure, gauge pressure, and especially low pressure in non-corrosive gases or air. They are 48X24 mm panel-mounted and feature an LED display, analog output (1 to 5 Vdc, 4 to 20 mA), and AL1, AL2, Go NPN or PNP open collector outputs.

### Features

- ▶ UL, CE certified
- ▶ 3-1/2 digit LED display
- ▶ 48mm X 24mm Panel Mounting Type
- ▶ Auto Zero
- ▶ 1~5Vdc or 4~20mA analog output(Adjustable Pressure Range)
- ▶ AL1, AL2, Go NPN or PNP Open Collector Alarm output
- ▶ Measuring range : 0~50Pa ... 10kPa, ±50Pa ... ±10kPa
- ▶ Use with non-corrosive, non-ionic media

### Applications

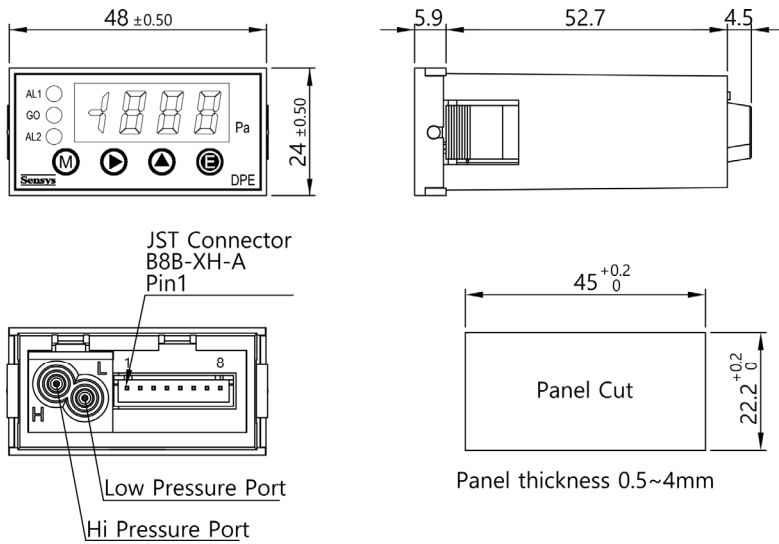
- ▶ Airflow Measurement
- ▶ Room Static Pressure
- ▶ VAV Box
- ▶ Lab/Fume Hood Control
- ▶ Clean Room Control



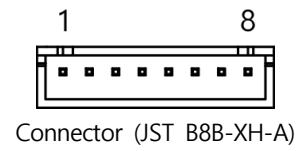
### Specifications

Pressure Range	0~50Pa ±50Pa	0~100Pa ±100Pa	0~200, 300Pa ±200Pa, ±300Pa	0~500Pa, 1, 2, 4, 10kPa ±500Pa, ±1, ±2, ±4, ±10kPa
Accuracy(Total 0~50°C)	±5%FS	±3%FS	±1.5%FS	±1%FS
Operating Temperature Range	-5~65°C(No freezing or condensation)			
Display	3-1/2 Digit LED (Green)			
Excitation	12~24Vdc±10%			
Switching Output	NPN or PNP Open Collector TR(80mA, 24Vdc), AL1, AL2, Go			
Analog Output	1~5VDC or 4~20mA (Adjustable Pressure Range)			
Response Time	100, 500, 1000, 2000, 5000, 10000ms			
Electrical Connection	JST B8B-XH-A(8pin)			
Proof Pressure	300%FS Max.			
Burst Pressure	500%FS Min.			
Pressure Port	Φ3.5 (Recommended Tube : OD 4 X ID 2.5 Urethane Tube)			
Medium	Air, non-corrosive dry gasses (dust is not permitted)			
IP Grade	IP40			

## Dimension



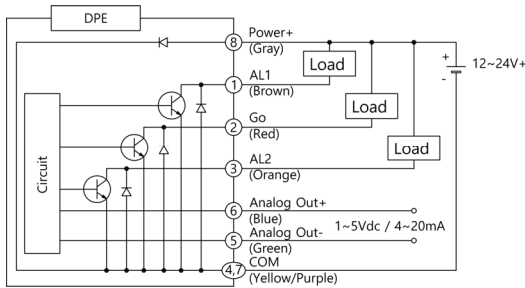
## Connection



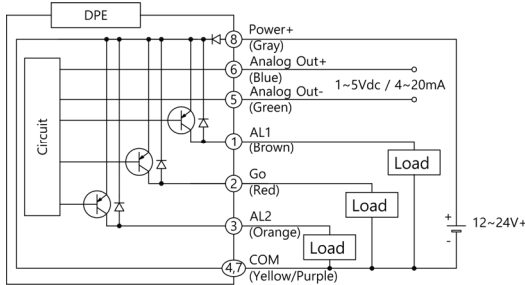
Pin No.	Color	Connection
1	Brown	AL1+
2	Red	GO+
3	Orange	AL2+
4	Yellow	COM
5	Green	Analog Out -
6	Blue	Analog Out +
7	Purple	Power -
8	Gray	Power +

## Circuit Diagram

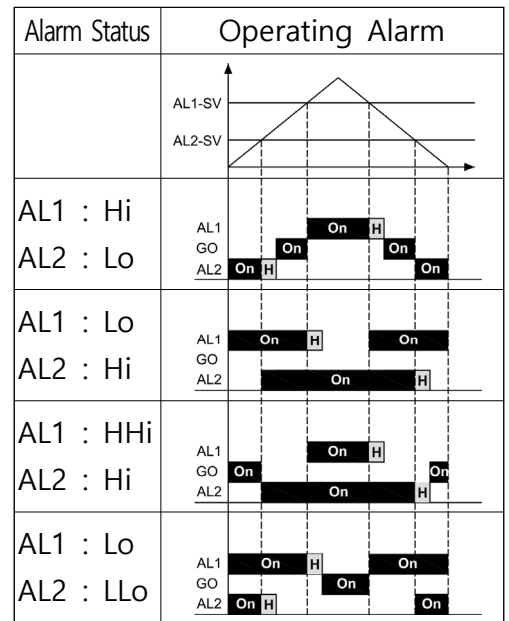
### ▶ NPN Open Collector Tr. Output



### ▶ PNP Open Collector Tr. Output



## Alarm Mode



## Ordering Information

