

# Model DPO

## Circular Differential Pressure Gauge / Transmitter

### Description

The DPO model can be used for non-corrosive gases and can measure differential pressure, vacuum pressure and gauge pressure, making it suitable for air conditioning systems. It has a front size of Ø100 and can be attached to a Ø93 mounting hole. It is divided into a 4~20mA (2-wire) output model (4-digit backlight LCD) and other output models. In particular, the other output model has excellent visibility by applying a color LCD display, and can be used stably with an isolated power supply and an isolated RS485 output.

### Features

- ▶ CE Certified
- ▶ Ø93 Mounting hole attachment type
- ▶ Auto Zero
- ▶ Pressure range adjustment
- ▶ Isolated power and isolated RS485 output (except 4~20mA 2W)
- ▶ Use with non-corrosive, non-ionic media

### Applications

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

### Specifications

Model	DPOH	DPO□
Range	±100Pa , ±200Pa, ±1kPa, ±4kPa, ±10kPa, ±100kPa	
Range Adjustment	12.5 ~ 100%	
Accuracy	±0.25%FS ± 1digit (< ±1kPa : ±0.5%FS ± 1digit) <sup>1)</sup>	
Thermal Effect on Zero	±0.03%FS/°C (< ±1kPa : ±0.05%FS/°C) <sup>1)</sup>	
Thermal Effect on Span	±0.03%FS/°C (< ±1kPa : ±0.05%FS/°C) <sup>1)</sup>	
Compensated Temperature Range	0~50°C(No freezing or condensation)	
Operating Temperature Range	-20~70°C(No freezing or condensation)	
Display	4 Digit LCD(Backlight) <sup>2)</sup>	4 Digit Color LCD <sup>2)</sup>
Excitation	11~28Vdc max.30mA Class2	17~28Vdc max.100mA <sup>3)</sup> Class2, Double Insulation or 100~240Vac(50/60Hz) Class2, Double Insulation
Analog Output(Optional)	4~20mA(2W)	1~5Vdc or 0~5Vdc or 0~10Vdc or 4~20mA(4W)
Switching(Alarm) Output	-	2 RELAY(5A 30Vdc)
Digital Output(Optional)	-	Isolated RS485 MODBUS RTU(8N1) <sup>4)</sup> : 2400, 4800, 9600bps, 19.2k, 38.4k, 57.6k, 115kpbs
Response Time	100ms	20, 100, 500, 1000, 2000ms
Proof Pressure	300%FS Max.	
Burst Pressure	500%FS Min.	
Pressure Port	R(PT)1/8"(F)	
Media	Non-corrosive Gases	
Protection	IP65	



<sup>1)</sup> Accuracy and Thermal Effect is based on ±100% range.(Accuracy is inversely proportional to the pressure range adjustment rate.)

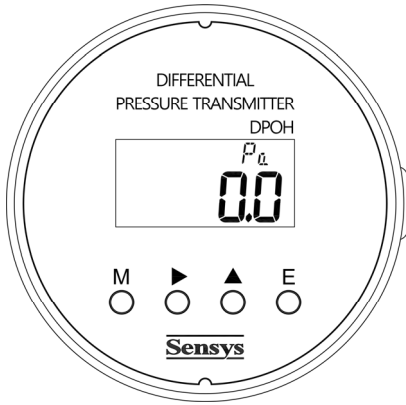
<sup>2)</sup> Max. Display Range : -5000~5000, LCD operating temperature range -10~70°C

<sup>3)</sup> Switch output not included.

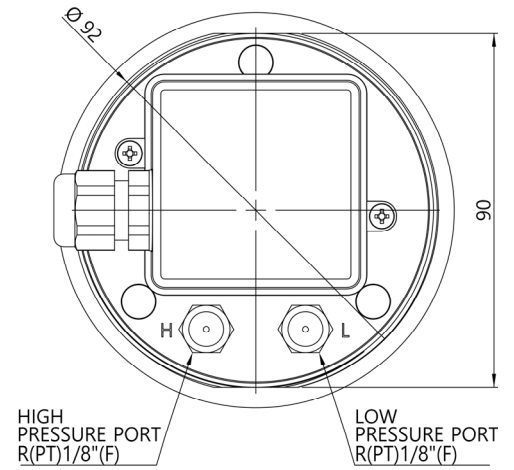
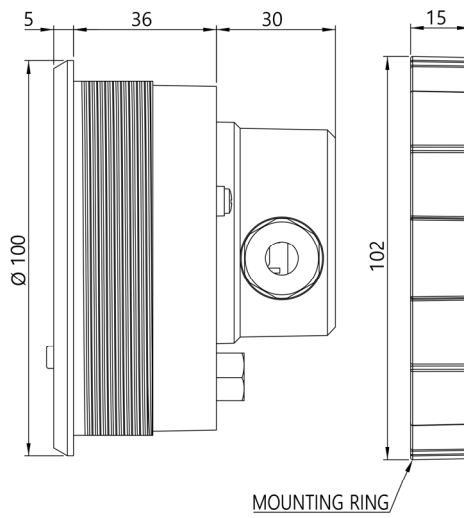
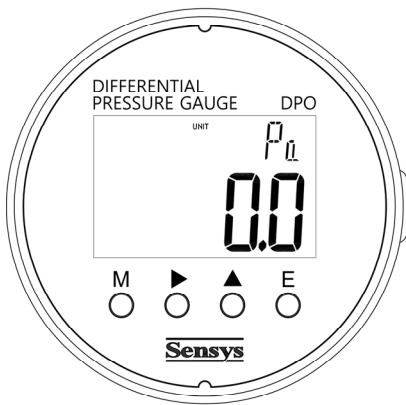
<sup>4)</sup> Industrial Isolated Communication Port: ESD ±8kV, EFT ±2kV, Surge ±6kV or higher protection immunity performance certification.

## Dimension

### ► DPOH

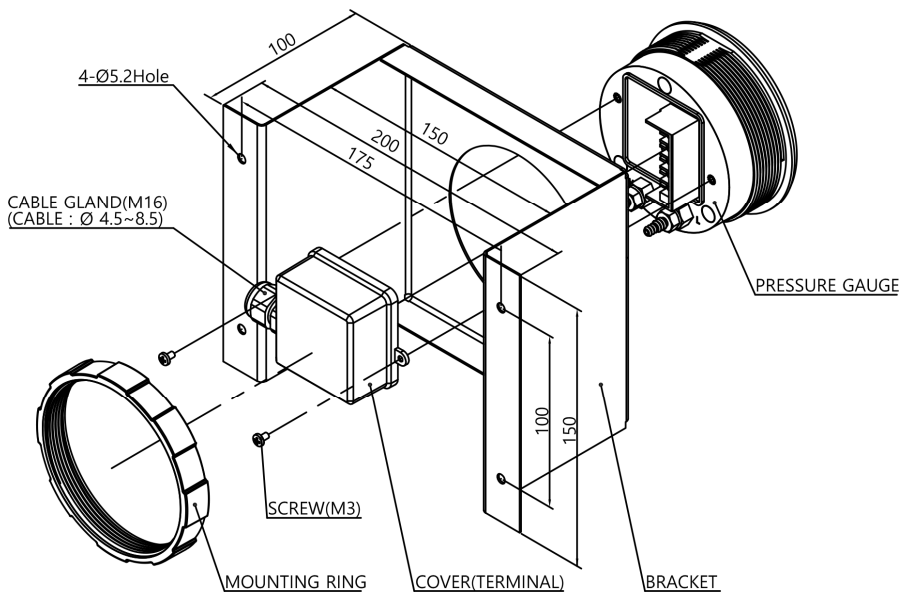


### ► DPO□



\*. Mounting hole:  $\varnothing 93$ , thickness up to 10mm

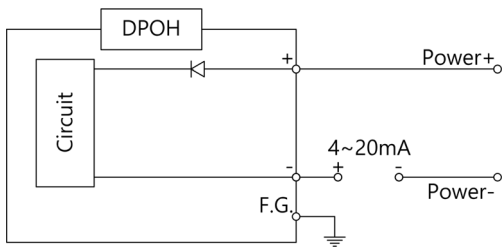
### ► Bracket Installation Diagram



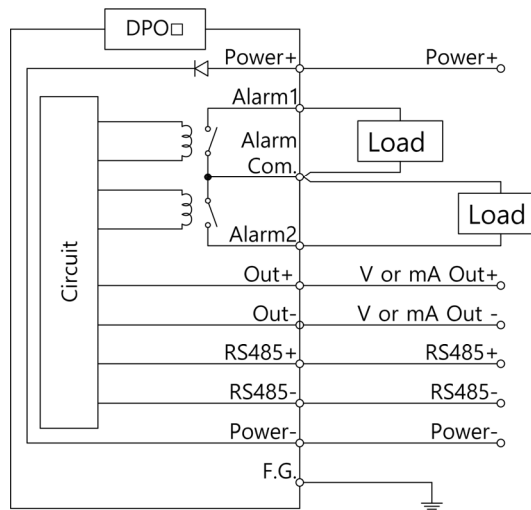
\*. Bracket : Sold separately

## Circuit Diagram

### ▶ DPOH

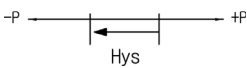
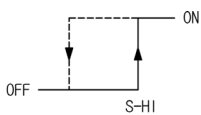


### ▶ DPO□

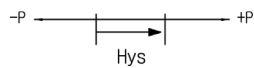
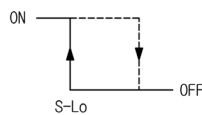


## Alarm Mode

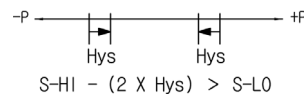
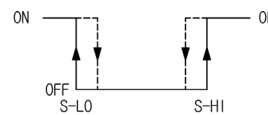
### ▶ Hi Mode



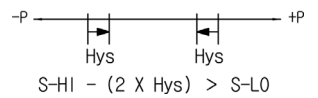
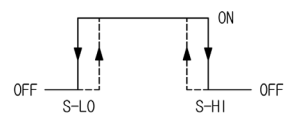
### ▶ Low Mode



### ▶ A Mode



### ▶ B Mode



## Ordering Information

<b>Model Name</b>	<b>DPO</b>	<b>H</b>	<b>A</b>	<b>±001</b>	<b>R</b>	<b>A</b>	<b>008</b>	-	<b>□□□</b>	<b>Sales Code</b>
<b>Analog Output</b>										<b>Port Option</b>
H : 4~20mA(2Wire)										008 : R(PT)1/8"(F)
C : 0~5V										<b>Excitation</b>
E : 1~5V										A : Vdc
J : 0~10V										B : 100~240Vac(282850/60Hz)
G : 4~20mA(4Wire)										(Excluding DPOH model)
<b>Switching &amp; Digital Output</b>										<b>Pressure Unit</b>
A : None										A : Pa
B : 2CH. Relay (Excluding DPOH model)										R : kPa
C : 2CH. Relay, RS485 (Excluding DPOH model)										E : mbar
										N : inH <sub>2</sub> O
										H : mmHg
<b>Pressure Range</b>										
XXXX : Pressure										