

# DP-100

## Digital Differential Pressure Transmitter

- Pressure Range 0 to 300...2,000Pa /  $\pm 300... \pm 2,000$ Pa
- Accuracy  $\pm 0.5\%$  F.S(at 25°C)
- Ambient Temp range -10 ~ 70 °C
- Zero temperature effect  $\pm 0.2$  F.S/°C
- Sensor Analog Output 4~20mA , 2-wire
- With Mounting bracket

DP-100 Model is for digital differential pressure transmitter, with analog output to 4~20mA and 2-wire. Typical applications for using airflow measurement and so many control systems.

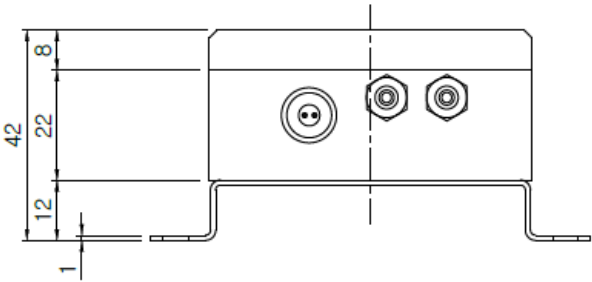
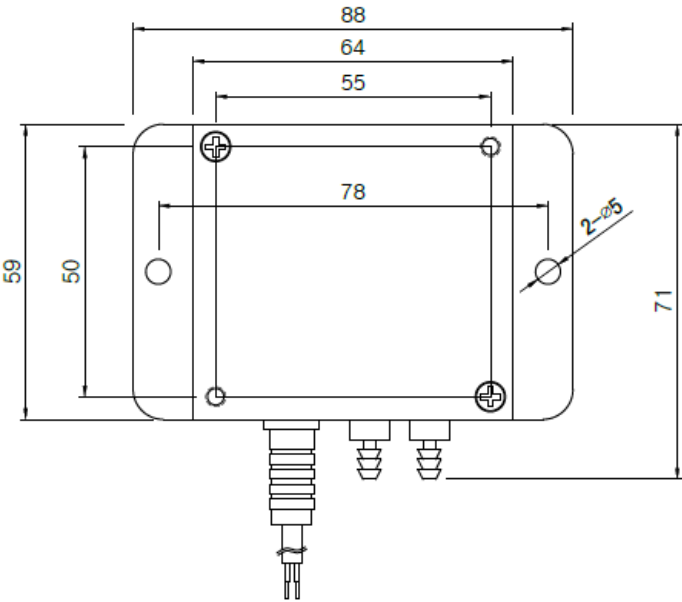


### TYPICAL APPLICATIONS

- ✓ Transmissions
- ✓ Airflow measurement
- ✓ Pneumatic and hydraulic controls
- ✓ control system
- ✓ Depth instrumentation

| General SPEC                   |                                                                              |
|--------------------------------|------------------------------------------------------------------------------|
| Characteristic                 | Description                                                                  |
| Pressure Range                 | 0 to 300...2,000Pa / $\pm 300... \pm 2,000$ Pa                               |
| Excitation                     | 10 to 28VDC                                                                  |
| Process Port                   | 1/8" Nipple                                                                  |
| Proof Range                    | x 2 %F.S [MAX]                                                               |
| Burst Range                    | x 3 %F.S [MAX]                                                               |
| Operating Temp. Range          | -10 to 70°C                                                                  |
| Compensated Temp. Range        | 0 to 50°C                                                                    |
| Accuracy                       | $\pm 0.5\%$ F.S [Typical/25°C ]                                              |
| Total Error band               | $\pm 1.5\%$ F.S [Typical] / $\pm 2.0\%$ F.S [MAX]                            |
| Hysteresis and repeatability   | $\pm 0.1\%$ F.S [Typical] / $\pm 0.15\%$ F.S [MAX]                           |
| Fix                            | Mounting bracket                                                             |
| Electric connection            | Cable type                                                                   |
| Enclosure                      | IP67                                                                         |
| Over Pressure / Burst Pressure | 2 x F.S. / 10 x F.S.                                                         |
| Response time 10~90%           | $\leq 2$ ms                                                                  |
| Wetted Materials               | Brass (Ni Plated)                                                            |
| Shock proof                    | 500m/s <sup>2</sup> (6ms or less, X, Y, Z 3times for each at constant temp.) |
| Vibration proof                | 50m/s <sup>2</sup> (10~500Hz, X:4h, Y:2h, Z:2h at constant temp.)            |
| Weight                         | Approx. 110g (without mounting bracket)                                      |

Dimensions (mm)



| ELECTRONICAL CONNECTIONS |             |
|--------------------------|-------------|
| Wire color               | Description |
| Red                      | IP(+)       |
| Black                    | IP(-)       |

How to order

DP100      ☐      ☐

|                    |             |   |
|--------------------|-------------|---|
| 1) Pressure range  |             |   |
| 0 to 300...2,000   | - 0300~2000 |   |
| ±300... ±2,000     | + 0300~2000 |   |
| 2) Pressure unit   |             |   |
| Pa                 | -----       | A |
| mmH <sub>2</sub> O | -----       | D |
| kPa                | -----       | R |

EX1) Range 0 to 300Pa  
DP100-0300A

EX2) Rage -300 to +300Pa  
DP100+0300A