

## DP Differential Pressure Transmitter

### Applications:

Omicron's DP differential pressure transmitter is an extremely versatile transmitter for precisely monitoring very low range differential pressure and air velocities. It has internal temperature compensation, and does not have any pressure drift. The pressure fluctuations can be filtered by the damping function. The output is steady under very low range pressure and the sensor is not sensitive to dust and moisture. It can be installed outdoors if the ambient temperatures are between -20 and 70°C. Typical Applications include Clean Rooms, Isolated Rooms, Ventilation Systems, Energy Management Systems, Leak Testing, Air Velocity Measurement, Medical Care and Test Instrument, Furnace Pressure Test, etc.



### Features:

- Minimum DP range 25Pa and accuracy is with optional accuracy of 0.5% F.S
- Field Selectable English or Metric Ranges using Jumpers
- Multiple applications, positive, negative or differential pressure
- Selectable double line four bit LCD Display
- High protection housing IP65

### Specifications:

Media	: Air and non-combustible gas
Accuracy	: $\pm 0.5\%$ of F.S; ( $\pm 0.25\%$ of F.S Optional)
Minimum Range	: 0 ~ 25 Pa / 0.1 inwc
Maximum Range	: 0 ~ 3000 Pa / 0 - 12 inwc
Temperature range	: -20°C to 70°C
Temperature drift	: 0.05% (zero and full range total)
Pressure limits	: 2 psi (continuous), 10 psi (burst pressure)
Power supply	: 10 to 35 VDC
Output signal	: 4 - 20mA; 0 - 10 VDC
Response time	: 0.5~15s; Field Adjustable
Zero and Span	: Digital Push Buttons
Current Consumption	: <40mA
Display (optional)	: LCD Display
Pressure connection	: 3/16" (5 mm) ID pipe, Max. OD 9mm
Protection rate	: IP65
Installation direction	: vertical



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### Models:

Code	Specifications
DP	: Diff. Pressure, 0 to Full Scale
DPZ	: DP with zero at center

Code	Output
1	: 0-10VDC
2	: 4-20mA

Code	Range
1	: 25, 50, 125(DPZ/100)Pa
2	: 250, 500, 1250Pa
3	: 750, 1500, 2000Pa
4	: 1, 2, 3KPa

Code	LCD Display
0	: No
1	: Yes

Code	Accessory
0	: No
1	: 196mm static pressure probe

### Dimension (mm):

