PRODUCT INFORMATION

Highly responsive differential-pressure type sensor with 0.5 msec. 99% step response
PT-162A(B) can measure differential pressure of fluids such as water

- **Features**
  - Can measure differential pressure with high responsiveness (0.5 msec. 99% step response).
  - PT-162A(B) can measure differential pressure of air and fluid.
  - PT-162A(B), which has air vent and is drip-proof, is optimum for measurement of water differential pressure.
  - Gauge pressure and differential pressure are selectable.
  - Insusceptible to noise with amplifier installed in the main unit.

- **Specifications**

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<th>Sensing element</th>
<th>Fluoro silicone</th>
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  | Measuring media  | PT-161A(A): Air, noncorrosive gas  
  |                  | PT-162A(B): Water, air, noncorrosive fluid, noncorrosive gas |
  | Pressure type    | Differential pressure, Gauge pressure (LOW port opened to the atmosphere) |
  | Accuracy         | ±0.5% of F.S. (Linearity, repeatability and hysteresis included) |
  | Temperature      | Zero: ±0.03% of F.S., °C  
  |                  | Span: ±0.03% of F.S., °C |
  | Permissible overpressure | 7 kPa & 35 kPa: 140 kPa  
  |                  | 100 kPa: 300 kPa  
  |                  | 200 kPa: 400 kPa  
  |                  | 700 kPa: 1.4 MPa |
  | Permissible line pressure | Within the range of permissible overpressure |
  | Response speed   | 0.5 msec 99% step response |
  | Power source     | ±15VDC (Current consumption: 10 mA or lower) |
  | External dimensions | PT-161A(A): 42 x 44 x 39 mm  
  |                  | PT-162A(B): φ54 x 76 mm (117 mm: Including the connector) |
  | Weight           | PT-161A(A): Approx. 185 g, PT-162A(B): Approx. 500 g |
  | Operating temperature | 5 to 40°C |
  | Range            | PT-161A(A) PT-162A(B)  
  |                  | 0 to 7 kPa  
  |                  | 0 to 35 kPa  
  |                  | 0 to 100 kPa  
  |                  | 0 to 200 kPa  
  |                  | 0 to 700 kPa |
  | Output voltage   | 0 to 5 VDC  
  |                  | *Load resistance: 5 kΩ or higher |
  | Signal connection | PT-161A(A): Cable (2 m) connected  
  |                  | PT-162A(B): Connector attached without cable |
  | Optional range   | High accuracy ±0.3% of F.S. |

- **Option for Combined Use**

  For an option, the PT-162A(B) can be used as a digital pressure gauge by combining it with the indicator unit of DP Gauge.

- **Application Examples**

  Analysis of pressure pulsation
  Check of fluid pipe differential pressure
  Measurement of clogging in the pipe
  Tank level gauge
  Others

* The contents in this PRODUCT INFORMATION are as of Feb. 2017. The specifications are subject to change without prior notice.

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