



# PT600

Series

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## Micro Differential Pressure Transmitter

Dabey Technology Co., LTD

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## Applications

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- ▶ Fire Fighting Equipment
- ▶ Pumps & Compressors
- ▶ Pneumatic Systems
- ▶ HVAC Systems
- ▶ Industrial Automation
- ▶ Medical Equipment
- ▶ Leak Detection
- ▶ Air Flow Measurement
- ▶ Filter Monitoring
- ▶ Civil & Industrial OEM

## Features

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- ✓ High Precision Measurement
- ✓ Excellent Long-term Stability
- ✓ Reliable MEMS Sensing Technology
- ✓ Stable Signal Output
- ✓ Compact & Robust Design
- ✓ Multiple Output Signals
- ✓ Wide Operating Temperature Range
- ✓ Easy Installation
- ✓ Intrinsic Safety Certification
- ✓ Cost-effective Solution

## Product Profile

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The PT600 Series micro differential pressure transmitter developed by DABEY Tech is a high-performance pressure measurement device designed for low differential pressure applications. Based on advanced MEMS pressure sensing technology, this transmitter delivers outstanding measurement accuracy, excellent reliability, and stable signal output.

Featuring a compact structure and small form factor, the PT600 Series ensures robust and durable performance in various environmental conditions. With intrinsic safety certification and wide temperature range operation, this product is well-suited for diverse industrial and commercial applications including fire fighting equipment, pumps and compressors, pneumatic systems, and various measurement and monitoring OEM applications.

The transmitter supports multiple electrical output signals including 4-20mA, 0-5V, 0-10V, and Modbus communication protocol, providing flexible integration options for different system requirements. Its aluminum alloy housing with IP54 protection ensures reliable performance in demanding industrial environments.

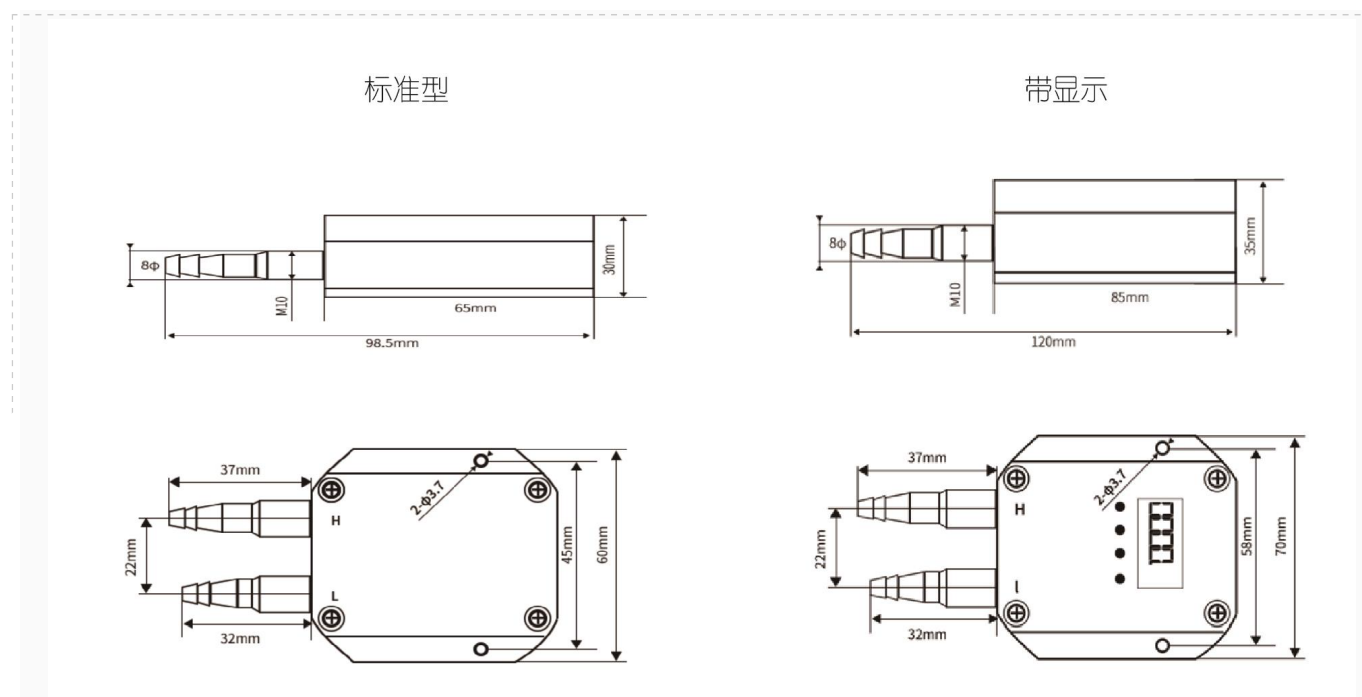
Performance Parameters

| Main Performance Indicators |                                   |
|-----------------------------|-----------------------------------|
| Measuring Range             | -10 KPa ~ +10 KPa (Bidirectional) |
| Accuracy Class              | 0.2 Class (±0.2% FS)              |
| Overload Pressure           | 2 x Full Scale                    |
| Response Time               | 5 ms (rise to 90% FS)             |
| Long-term Stability         | ±0.2% FS / year                   |
| Pressure Type               | Differential Pressure             |
| Medium Temperature Range    | -20°C ~ +70°C                     |
| Ambient Temperature Range   | -40°C ~ +85°C                     |

| Mechanical Performance |                                     |
|------------------------|-------------------------------------|
| Housing Material       | Aluminum Alloy                      |
| Protection Class       | IP54                                |
| Process Connection     | Barbed Hose Fitting (Pagoda Nozzle) |
| Electrical Connection  | Shielded Cable                      |
| Mounting               | Direct Mount / Panel Mount          |
| Weight                 | Approx. 80g (without cable)         |

| Electrical Performance           |                                          |
|----------------------------------|------------------------------------------|
| Power Supply                     | 10 ~ 30 V DC (Typical 24V DC)            |
| Output Signals                   | 4-20mA, 0-5V, 0-10V, Modbus (RTU)        |
| Output Type                      | Two-wire (4-20mA) / Three-wire (Voltage) |
| Load Resistance (Current Output) | ≤ 500Ω @ 24V DC                          |
| Insulation Resistance            | ≥ 100 MΩ @ 500V DC                       |
| Electrical Strength              | 500V AC, 1 minute, no breakdown          |
| Power Consumption                | < 2W                                     |

## Outline Drawing



### Installation Recommendations

- ✓ Install in a dry, well-ventilated location away from direct sunlight
- ✓ Ensure pressure ports are oriented downward to prevent condensation buildup
- ✓ Use appropriate tubing size and secure with hose clamps for reliable connection
- ✓ Avoid excessive vibration and mechanical shock at installation location
- ✓ Allow sufficient space for wiring and maintenance access
- ✓ Cable shield should be grounded at one end only to avoid ground loops

## How to Order

Please refer to the selection table below to specify your required configuration.

PT600 - [Process Connection] - [Output] - [Measuring Range]

### Selection Guide

| Code                      | Description                       |
|---------------------------|-----------------------------------|
| <b>Process Connection</b> |                                   |
| <b>M8</b>                 | 8 mm barbed hose fitting          |
| <b>M6</b>                 | 6 mm barbed hose fitting          |
| <b>Q6</b>                 | 6mm tube type port                |
| <b>Q8</b>                 | 8mm tube type port                |
| <b>YY</b>                 | Customer specified custom version |
| <b>Output</b>             |                                   |
| <b>1</b>                  | 4~20mA                            |
| <b>2</b>                  | 4~20 mA + Local display           |
| <b>3</b>                  | 0~10V                             |
| <b>4</b>                  | 0~10V + Local display             |
| <b>5</b>                  | Modbus RTU                        |
| <b>6</b>                  | Modbus + Local display            |
| <b>Measuring Range</b>    |                                   |
| <b>DC</b>                 | 0...100 Pa                        |
| <b>DD</b>                 | 0...200 Pa                        |
| <b>DE</b>                 | 0...500 Pa                        |
| <b>DF</b>                 | 0...1 kPa                         |
| <b>DG</b>                 | 0...2 kPa                         |
| <b>DH</b>                 | 0...5 kPa                         |
| <b>DI</b>                 | 0...10 kPa                        |
| <b>JC</b>                 | -100...100 Pa                     |
| <b>JD</b>                 | -200...200 Pa                     |
| <b>JE</b>                 | -500...500Pa                      |

|    |                                 |
|----|---------------------------------|
| JF | -1...1kPa                       |
| JG | -2...2kPa                       |
| JH | -5...5 kPa                      |
| JI | -10...10 kPa                    |
| YY | Customer-specified custom range |

Ordering Example

PT600-M8-1-DC

Notes:

- 1. FS = Full Scale (Full Range)
- 2. Custom specifications available upon request, including special ranges, connectors, cable types, and housing materials.
- 3. Intrinsic safety certification requires specific configuration, please consult factory for details.
- 4. All specifications subject to change without notice for product improvement.