

Your Partner of Sensing and Measuring

Micro Sensor Co., Ltd.

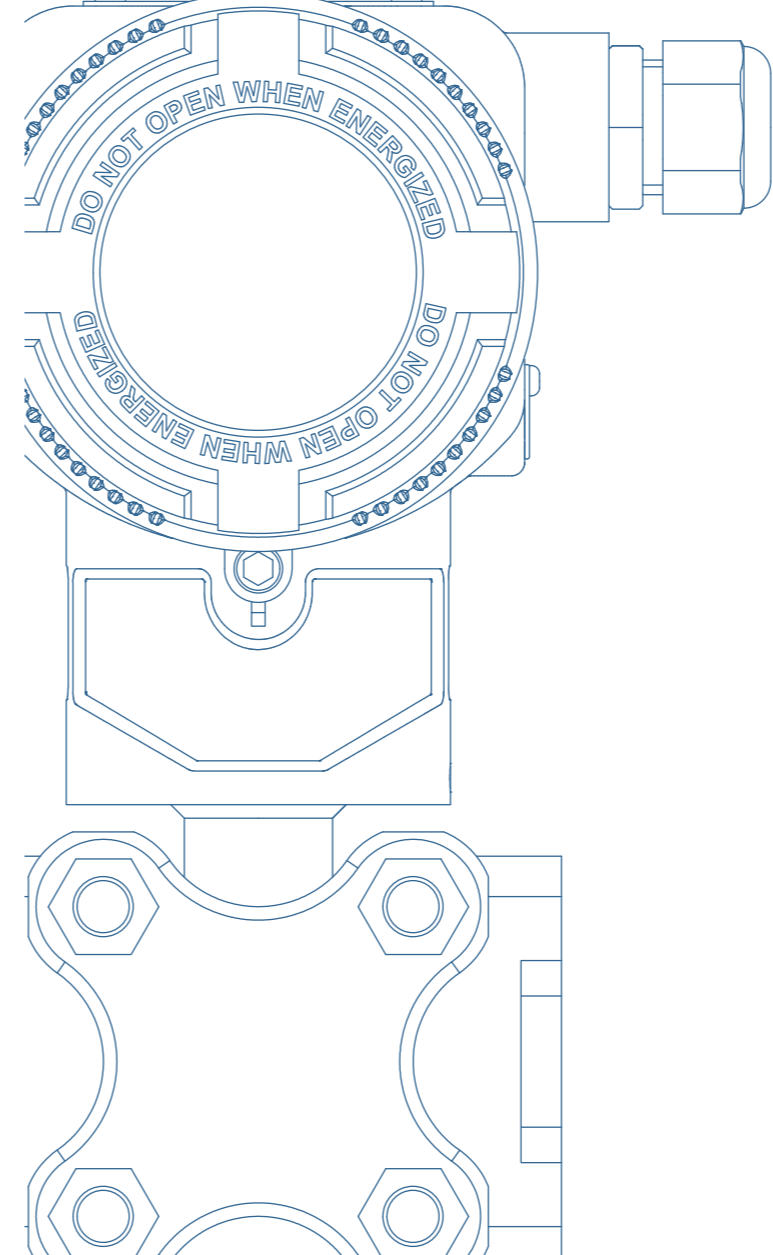
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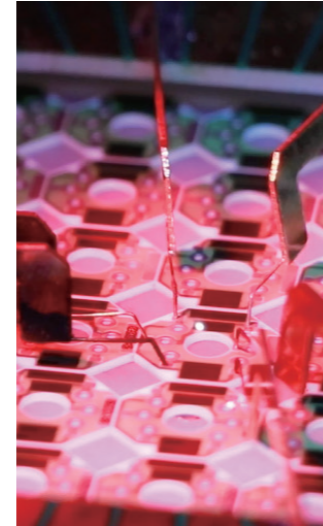
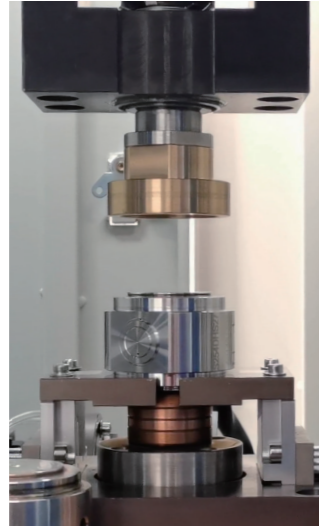
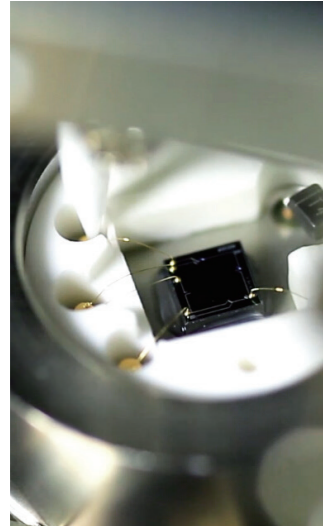
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INTELLIGENT PRESSURE TRANSMITTER

Company Profile



Since 1971, Micro Sensor has been researching, designing and producing pressure sensing and measuring instruments based on piezoresistive measuring principles. Today customers can be supplied with high-quality pressure sensors, pressure transmitters, level sensors, flow meters and wireless IoT devices.

At Micro Sensor, we learned that sometimes customer may need a customized sensor product due to their type of application. That's why we offer sensor product with variety of customized changing variables to suit customer's unique application. To adapt to different application environment, we offer different types of isolated liquid, pressure ranges, compensated temperature ranges, size, materials, structures, power supply & output type and even performance.

Through modifying all of these parameters, we aim to offer the most cost effective and compatible sensor product for customer's application, but maintain high levels of accuracy, stability and reliability at the same time.

Overview

MDM6000



MDM7000



Intelligent pressure transmitter, employing high-performance monocrystalline silicon pressure sensing technology, is used to measure pressure/-differential pressure, liquid level/level, density and flow information of various media (liquid, gas, mixed liquid, etc.). The product output is rich and diverse, including standard 4~20mA analog current signal, optional HART communication protocol and RS485-Modbus and other industrial bus protocols. The application site can be parameterized, monitored and tested by buttons, hand communicator or PC, providing efficient and reliable measurement solutions for the automation control of industrial processes.

Intelligent pressure transmitters are designed in a variety of types and modular functional designs, widely used in electric power, chemical industry, environmental protection, food and medicine, industrial gas, papermaking, shipping and other industrial fields. MDM6000 series products are suitable for general process industry, equipment matching and other application scenarios. MDM7000 series products have better performance, meet a number of qualification requirements, and a variety of functions and material configurations to cope with more complex environmental conditions.

Advantages

Technology



Patented technology for differential pressure sensor

Monocrystalline silicon pressure measurement technology, stable performance with accuracy up to 0.05%FS

High overload protection diaphragm to provide high pressure overload protection

Performance



Wide range

up to 100:1 range ratio, with flexible span shift

Serve



Supply & Delivery

Independent design, development and production stable supply, on-time delivery



Customization

Flexibly customized according to the needs of field applications



Strong anti-interference ability

high-performance EMC protection circuit module to effectively reduce the impact of electromagnetic disturbance on the output of the product



Good stability

long-term stability 0.1% SPAN/5 years

Advantages

Quality



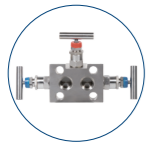
LCD display

Built-in backlight LCD for real-time display of multiple information on site



High-impact shell

Explosion-proof certification, low copper aluminum alloy shell, high quality and stability, reliable protection



Stainless steel tri-valve set

Stainless steel process, anti-corrosion, anti-rust, to cope with complex site conditions, with a long service life



Intelligent display

Unit switching, range adjustment, etc. can be set by keys or field communicator simply and user-friendly



Installation accessories

Supporting a variety of installation accessories, for various on-site fixtures, convenient for installation

MDM6000 Series

MDM6000-DP

Intelligent Differential Pressure Transmitter

Range: 60mbar~100bar

Accuracy: $\pm 0.075\%$, $\pm 0.1\%$, $\pm 0.2\%$ URL

Long-term stability: $\pm 0.1\%$ SPAN/5years

Working temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

LCD display: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Media temperature range: $-45^{\circ}\text{C}\sim 105^{\circ}\text{C}$

Line pressure: Max 250bar (Different range)

Overload: Max 160bar (Different range)

Output signal: 4mA~20mA DC, 4mA~20mA DC+HART, Modbus-RTU/RS485

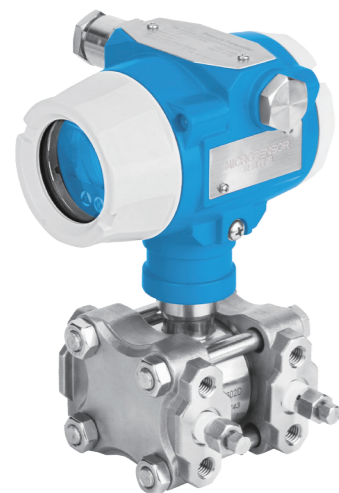
Power supply: 10.5V/16.5V~55V DC

Protection rating: IP67

* The specific parameters of each model shall be subject to the latest official documents released by Micro Sensor



MDM6000 Series



MDM6000-DGP/DAP Intelligent Differential Pressure Mounted Gauge/ Absolute Pressure Transmitter

Range: MDM6000-DGP: 60mbar ~400bar

MDM6000-DAP: 0.4bar~100bar

Accuracy: MDM6000-DGP: $\pm 0.075\%$, $\pm 0.1\%$, $\pm 0.2\%$ URL

MDM6000-DAP: $\pm 0.1\%$, $\pm 0.2\%$ URL

Long-term stability: $\pm 0.2\%$ SPAN/5years

Working temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

LCD display: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Media temperature range: $-45^{\circ}\text{C}\sim 105^{\circ}\text{C}$

Overload: Max 16bar (Different range)

Output signal: 4mA~20mA DC, 4mA~20mA DC+HART, Modbus-RTU/RS485

Power supply: 10.5V/16.5V~55V DC

Protection rating: IP67

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MDM6000 Series



MDM6000-GP/AP Intelligent Gauge/Absolute Pressure Transmitter

Range: MDM6000-GP: 0.4bar ~400bar

MDM6000-AP: 0.4bar~100bar

Accuracy: MDM6000-GP: $\pm 0.075\%$, $\pm 0.1\%$, $\pm 0.2\%$ URL

MDM6000-AP: $\pm 0.1\%$, $\pm 0.2\%$ URL

Long-term stability: $\pm 0.2\%$ SPAN/5years

Working temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

LCD display: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Media temperature range: $-45^{\circ}\text{C}\sim 105^{\circ}\text{C}$

Overload: Max 800bar (Different range)

Output signal: 4mA~20mA DC, 4mA~20mA DC+HART, Modbus-RTU/RS485

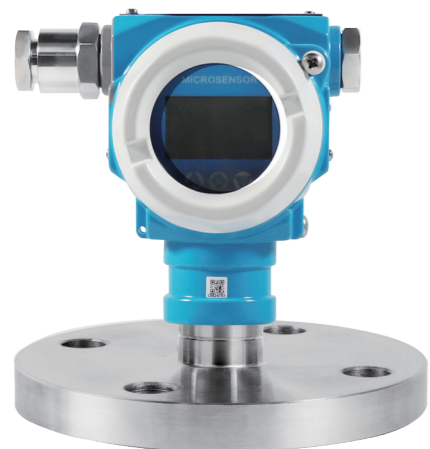
Power supply: 10.5V/16.5V~55V DC

Protection rating: IP67

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MDM6000 Series



MDM6000-GP-T/AP-T Intelligent Gauge/Absolute Pressure Transmitter

Range: MDM6000-GP-T: 0.4bar~30bar

MDM6000-AP-T: 0.4bar~10bar

Accuracy: $\pm 0.1\%$, $\pm 0.2\%$ URL

Long-term stability: $\pm 0.2\%$ SPAN/5years

Working temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

LCD display: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Media temperature range: $-45^{\circ}\text{C}\sim 105^{\circ}\text{C}$

Overload: Max 150bar (Different range)

Output signal: 4mA~20mA DC, 4mA~20mA DC+HART, Modbus-RTU/RS485

Power supply: 10.5V/16.5V~55V DC

Protection rating: IP67

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MDM6000 Series



MDM6000-LT Intelligent Level Transmitter

Range: 0.4bar~30bar

Accuracy: $\pm 0.1\%$ URL

Long-term stability: $\pm 0.2\%$ SPAN/5years

Working temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

LCD display: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Media temperature range: $-40^{\circ}\text{C}\sim 315^{\circ}\text{C}$

Line pressure, overload: Level flange rated pressure

Output signal: 4mA~20mA DC, 4mA~20mA DC+HART, Modbus-RTU/RS485

Power supply: 10.5V/16.5V~55V DC

Protection rating: IP67

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MDM6000 Series



MDM6000-LP Differential Pressure Transmitter with Remote Diaphragm Seal

Range: 0.4bar~30bar

Accuracy: $\pm 0.1\%$ URL

Long-term stability: $\pm 0.2\%$ SPAN/5years

Working temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

LCD display: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Media temperature range: $-40^{\circ}\text{C}\sim 315^{\circ}\text{C}$

Line pressure, overload: Level flange rated pressure

Output signal: 4mA~20mA DC, 4mA~20mA DC+HART, Modbus-RTU/RS485

Power supply: 10.5V/16.5V~55V DC

Protection rating: IP67

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MDM7000 Series



MDM7000-DP Intelligent Differential Pressure Transmitter

Range: 60mbar~30bar

Accuracy: $\pm 0.075\%$, $\pm 0.05\%$ URL

Long-term stability: $\pm 0.1\%$ SPAN/5years

Working temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

LCD display: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Media temperature range: $-45^{\circ}\text{C}\sim 105^{\circ}\text{C}$

Line pressure: Max 400bar (Different range)

Overload: Max 250bar (Different range)

Output signal: 4mA~20mA DC, 4mA~20mA DC+HART

Power supply: 10.5V/16.5V~55V DC

Protection rating: IP67

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MDM7000 Series



MDM7000-DGP/DAP Intelligent Differential Pressure Mounted Gauge/ Absolute Pressure Transmitter

Range: MDM7000-DGP: 60mbar ~400bar

MDM7000-DAP: 0.4bar~100bar

Accuracy: MDM7000-DGP: $\pm 0.075\%$, $\pm 0.05\%$ URL

MDM7000-DAP: $\pm 0.1\%$, $\pm 0.2\%$ URL

Long-term stability: $\pm 0.1\%$ SPAN/5years

Working temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

LCD display: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Media temperature range: $-45^{\circ}\text{C}\sim 105^{\circ}\text{C}$

Overload: Max 250bar (Different range)

Output signal: 4mA~20mA DC, 4mA~20mA DC+HART

Power supply: 10.5V/16.5V~55V DC

Protection rating: IP67

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MDM7000 Series



MDM7000-GP/AP Intelligent Gauge/Absolute Pressure Transmitter

Range: MDM7000-GP: 0.4bar ~400bar

MDM7000-AP: 0.4bar~100bar

Accuracy: MDM7000-GP: $\pm 0.075\%$, $\pm 0.1\%$ URL

MDM7000-AP: $\pm 0.1\%$, $\pm 0.2\%$ URL

Long-term stability: $\pm 0.1\%$ SPAN/5years

Working temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

LCD display: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Media temperature range: $-45^{\circ}\text{C}\sim 105^{\circ}\text{C}$

Overload: Max 800bar (Different range)

Output signal: 4mA~20mA DC, 4mA~20mA DC+HART

Power supply: 10.5V/16.5V~55V DC

Protection rating: IP67

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MDM7000 Series



MDM7000-GP-T/AP-T Intelligent Gauge/Absolute Pressure Transmitter

Range: MDM7000-GP-T: 0.4bar~30bar

MDM7000-AP-T: 0.4bar~10bar

Accuracy: $\pm 0.1\%$, $\pm 0.2\%$ URL

Long-term stability: $\pm 0.1\%$ SPAN/5years

Working temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

LCD display: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Media temperature range: $-45^{\circ}\text{C}\sim 105^{\circ}\text{C}$

Overload: Max 150bar (Different range)

Output signal: 4mA~20mA DC, 4mA~20mA DC+HART, Modbus-RTU/RS485

Power supply: 10.5V/16.5V~55V DC

Protection rating: IP67

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MDM7000 Series



MDM7000-LT Intelligent Level Transmitter

Range: 0.4bar~30bar

Accuracy: $\pm 0.075\%$ URL

Long-term stability: $\pm 0.2\%$ SPAN/5years

Working temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

LCD display: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Media temperature range: $-40^{\circ}\text{C}\sim 315^{\circ}\text{C}$

Line pressure, overload: Level flange rated pressure

Output signal: 4mA~20mA DC, 4mA~20mA DC+HART

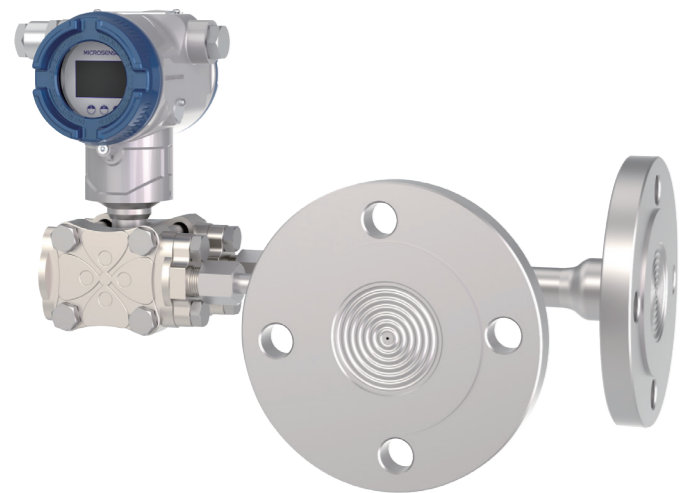
Power supply: 10.5V/16.5V~55V DC

Protection rating: IP67

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MDM7000 Series



MDM7000-LP Differential Pressure Transmitter with Remote Diaphragm Seal

Range: 0.4bar~30bar

Accuracy: $\pm 0.075\%$ URL

Long-term stability: $\pm 0.2\%$ SPAN/5years

Working temperature: $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

LCD display: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Media temperature range: $-40^{\circ}\text{C}\sim 315^{\circ}\text{C}$

Line pressure, overload: Level flange rated pressure

Output signal: 4mA~20mA DC, 4mA~20mA DC+HART

Power supply: 10.5V/16.5V~55V DC

Protection rating: IP67

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Application Industries

Intelligent pressure transmitter from Micro Sensor, with wide range, stable performance and strong anti-interference capability, is used to measure level, density, pressure and flow measurement of different medium including sewage and wastewater, gas, oil, acid and alkali, pulp and slurry, chemical products, etc.

Petrochemical



Water Treatment



Pulp and Paper



Marine and Shipbuilding



Food and Beverage



Biotech and Pharma

