

*your partner of sensing and measuring*

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MICROSENSOR

# TRANSMITTERS

YOUR PARTNER OF SENSING AND MEASURING

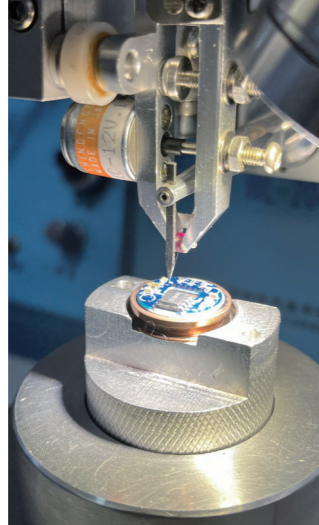
V1.0·202504

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*PRESSURE LEVEL TEMPERATURE FLOW*

# Company



Since its inception in 1993, Micro Sensor Co., Ltd. (Micro Sensor) has been a global manufacturer and service provider of industrial instrumentation. Specializing in providing industrial measuring instrument solutions for pressure, level, temperature, and flow, Micro Sensor serves various industries including oil & gas, renewable energy, industrial gases, water & wastewater, marine & shipbuilding, HVAC, hydraulics & pneumatics, mechanical manufacturing & automation, as well as food & beverage and paper.

Micro Sensor boasts a global workforce of over 800 employees and operates four industrial parks in three locations in China (Baoji, Xi'an, and Shanghai), with the additional establishment of Micro Sensor GmbH in Essen, Germany. The company's technical R&D is based on the "IPD R&D management system," with over 100 core R&D experts and 223 authorized patents and software copyrights, including 20 invention patents, as well as over 240 domestic and international certificates. It serves customers in over 100 countries and regions, accumulating to over 20,000 satisfied clients.

## Pressure/Level Transmitter for General Industries

**M20**



**MPM4846W**



<b>Features</b>	Small Size, Mass Production, Analog Output, Cost-Effective	Level Measurement, IP68, Analog Output, Cost-Effective
<b>Range</b>	0.25bar~250bar	2mH <sub>2</sub> O~200mH <sub>2</sub> O
<b>Output Signal</b>	4~20mA DC 0/1~5/10V DC 0.5~4.5V DC	4mA~20mA DC 0/1~5/10V DC 0.5~4.5V DC RS485,MODBUS_RTU
<b>Operating Temperature</b>	-30°C~85°C	-20°C~80°C
<b>Accuracy</b>	±0.5%FS	±0.5%FS
<b>Certificates</b>		

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

## Pressure/Level Transmitter for General Industries

**MPM489**



**MPM489SY1**



**MPM489W**



**MPM489WZ4**



<b>Features</b>	Complicated Conditions, Diverse Constructions	Small Size	Level Measurement, Complicated Conditions	Level Measurement, Small Diameters Φ22mm
<b>Range</b>	0.1bar~1000bar	2bar~600bar	1mH <sub>2</sub> O~200mH <sub>2</sub> O	10mH <sub>2</sub> O~200mH <sub>2</sub> O
<b>Output Signal</b>	4~20mA DC 0/1~5/10V DC 0.5~2.5/4.5V DC	4~20mA DC	4~20mA DC 0/1~5/10V DC 0.5~4.5V DC	4~20mA DC
<b>Operating Temperature</b>	-30°C~80°C	-30°C~80°C	-20°C~70°C	-20°C~70°C
<b>Accuracy</b>	±0.5%FS ±0.25%FS	±0.5%FS	±0.5%FS ±0.25%FS	±0.5%FS
<b>Certificates</b>				

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## Pressure / Level Transmitter for General Industries

**MPM480**



**MPM4730**



**MPM4736**



**MPM4700**



**MPM4706**



Features	High Stability, High Frequency Response, Analog Output	High Accuracy, High Stability, Digital Output	Low Power Consumption, Wide Voltage Input, Digital Output, Pressure & temperature measurement	Level Measurement, High Accuracy, High Stability, Digital Output	Low Power Consumption, Wide Voltage Input, Digital Output, Level Measurement, Medium Temperature Measurement
Range	0.1bar~1000bar	0.1bar~1000bar	0.1bar~1000bar	1mH <sub>2</sub> O~200mH <sub>2</sub> O	1mH <sub>2</sub> O~200mH <sub>2</sub> O
Output Signal	4/0~20/10mA DC 0/1~5V DC 0~10V DC	4~20mA DC RS485, MODBUS_RTU RS485, ASCII	RS485, MODBUS_RTU RS485, ASCII	4~20mA DC RS485, MODBUS_RTU RS485, ASCII	RS485, MODBUS_RTU RS485, ASCII
Operating Temperature	-30°C~80°C	-30°C~80°C	-30°C~80°C	-20°C~80°C	-20°C~70°C
Accuracy	±0.25%FS	±0.1%FS	±0.25%FS ±0.5°C	±0.1%FS	±0.25%FS ±0.5°C
Certificates					

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## Digital Pressure Transmitter & High Temperature Pressure / Level Transmitter

**MPM3801A**



**MPM3803**



**MPM4530**



**MPM4810**



Features	Low Power Consumption, Wide Voltage Input, High Stability	Low power consumption, low-voltage supply, high accuracy	High Temperature Pressure Measurement	High Temperature Pressure Measurement
Range	0.07bar~1000bar	0.07bar~70bar	0.1bar~1000bar	5mH <sub>2</sub> O~200mH <sub>2</sub> O
Output Signal	IIC/SPI	IIC	4~20mA DC	4~20mA DC
Operating Temperature	-20°C~80°C	-40°C~80°C	-40°C~150°C	0°C~125°C
Accuracy	±0.25%FS	±0.25%FS	±0.25%FS	±0.5%FS ±2°C
Certificates				

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## Low Pressure / Differential Pressure Transmitter

**MDM490**



**MPM430**



**MPM436W**



Features	Differential Pressure Measurement	Low Pressure Measurement, Small Size	Low Level Measurement
Range	0.35bar~35bar	-100bar~400bar	0.2mH <sub>2</sub> O~10mH <sub>2</sub> O
Output Signal	4~20mA DC   0/1~5V DC   0~10/20mA DC	4~20mA DC	4~20mA DC
Operating Temperature	-30°C~80°C	-30°C~80°C	-20°C~80°C
Accuracy	±0.5%FS	±0.5%FS	±0.5%FS
Certificates			

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## Transmitter with Indicator

**MPM483E/DM**



**MPM486**



**MPM4760**



**MPM416WK**



Features	LED/LCD Indicator, Digital Output	LCD Indicator, HART protocol	LCD Indicator, Battery Power Supply	Level Measurement, Separated Construction, Stainless Steel Armored Protection
Range	0.1bar~1000bar	0.2bar~1000bar	0.1bar~1000bar	1mH <sub>2</sub> O~4mH <sub>2</sub> O
Output Signal	4mA~20mA DC   0/1~5/10V DC RS485, MODBUS_RTU	4mA~20mA DC + HART	4mA~20mA DC RS485, MODBUS_RTU	4~20mA DC
Operating Temperature	-30°C~80°C	-30°C~80°C	-30°C~80°C	-30°C~80°C
Accuracy	±0.25%FS   ±0.1%FS	±0.25%FS	±0.25%FS	±0.25%FS
Certificates				

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## Pressure Transmitter for Specific Industries

**MDM4901FL**



**MPM489FL**



**M20FL**



Features	Oxygen Differential Pressure Measurement	Oxygen Pressure Measurement	Oxygen Pressure Measurement, Small Size
Range	0.35bar~35bar	0.1bar~300bar	0.25bar~250bar
Output Signal	4~20mA DC 0~10/20mA DC 0/1~5V DC 0~10V DC	4~20mA DC 0/1~5/10V DC 0.5~2.5/4.5V DC	4~20mA DC 0/1~5/10V DC 0.5~4.5V DC
Operating Temperature	-30°C~80°C	-30°C~80°C	-30°C~85°C
Accuracy	±0.5%FS	±0.5%FS	±0.5%FS
Certificates			

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## Pressure Transmitter for Specific Industries

**MPM480GH**



**MPM458GUHP**



**MPM426WPF/PC**



Features	Hydrogen Pressure Measurement Gold-Plated Diaphragm	High Purity Gas Pressure Measurement	Fuel and Chemical Level Measurement
Range	0.1bar~70bar	-1bar~15bar/35bar/210bar	2mH <sub>2</sub> O~200mH <sub>2</sub> O
Output Signal	4~20mA DC 0/1~5/10V DC 0.5~4.5V DC 0.5~2.5V DC	4~20mA DC	4~20mA DC 0/1~5/10V DC 0.5~2.5/4.5V DC RS485, MODBUS_RTU
Operating Temperature	-30°C~85°C	-20°C~85°C	-30°C~80°C
Accuracy	±0.25%FS	±0.5%FS	±0.25%FS
Certificates			

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## Pressure Transmitter for Specific Industries

**MPM4511**



**MPM4511A**



**MPM4511H**



<b>Features</b>	Special for Hydraulics, Anti-Vibration, Impact Resistance, High Overload	Special for Construction Machinery, Anti-Vibration, Impact Resistance, High Overload, Small Size	Special 316L Diaphragm, Hydrogen Measurement
<b>Range</b>	0bar~16bar...1000bar	0bar~16bar...350bar	0bar~16bar...600bar (Intrinsically Safe) 0bar~50bar...600bar (Flameproof)
<b>Output Signal</b>	4mA~20mA DC    0.5V~4.5V DC 0V~10V DC        0.5V~4.5V DC	0V~10V DC    0.5V~4.5V DC    4mA~20mA DC 4mA~20mA & 20mA~4mA DC (Dual Output) 0.5V~4.5V & 4.5V~0.5V DC (Dual Output)	4mA~ 20mA DC 0.5V~4.5V DC    0V~10V DC
<b>Operating Temperature</b>	-40°C~125°C	-40°C~125°C (Single Output)    -40°C~85°C (Dual Output)	-40°C~60°C (Intrinsically Safe)    -40°C~70°C (Flameproof)
<b>Accuracy</b>	±0.5%FS (@25°C)	±0.5%FS (@25°C)	≤ 1%FS (@25°C)
<b>Certificates</b>			

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## Temperature Transmitter

**MTM4831**



**MTM Integrated**



**WZ**



<b>Features</b>	Temperature Monitoring, High Accuracy, Various Output	Temperature Monitoring, General industrial	Temperature Sensor, Various Graduation Numbers, Various Construction
<b>Range</b>	-200°C~1200°C	-200°C~500°C	-200°C~1600°C
<b>Output Signal</b>	4~20mA DC RS485, MODBUS_RTU Thermal Resistance, Thermocouple 4~20mA DC+HART    4~20mA DC+RS485	4~20mA DC RS485, MODBUS_RTU Thermal Resistance, Thermocouple 4~20mA DC HART    4~20mA DC+RS485	Thermal Resistance PT100/PT1000 Thermocouple K/J/T/E/S    4~20mA DC
<b>Operating Temperature</b>	-25°C~70°C	-10°C~80°C	-200°C~1600°C
<b>Accuracy</b>	±0.25%FS    ±0.5%FS    ±1.0%FS	±1%FS	Level A & I
<b>Certificates</b>			

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## Switch and Controller

**MPM5581**



**MPM484ZL**



**MPM460W**



Features	Pressure Switch, LED Display	Pressure Controller, AC/DC Power Supply	Level Controller, AC/DC Power Supply
Range	1bar~600bar	0.1bar~1000bar	1mH <sub>2</sub> O~200mH <sub>2</sub> O
Output Signal	0/4~20mA DC 2×PNP	4mA~20mA DC    0V~10V DC RS485, MODBUS_RTU	4mA~20mA DC    0V~10V DC RS485, MODBUS_RTU
Operating Temperature	-20°C~80°C	-10°C~60°C	-10°C~60°C
Accuracy	±0.5%FS	±0.25%FS	±0.25%FS
Certificates	/		

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## Other Products

**LR725L**



**LKZLD**



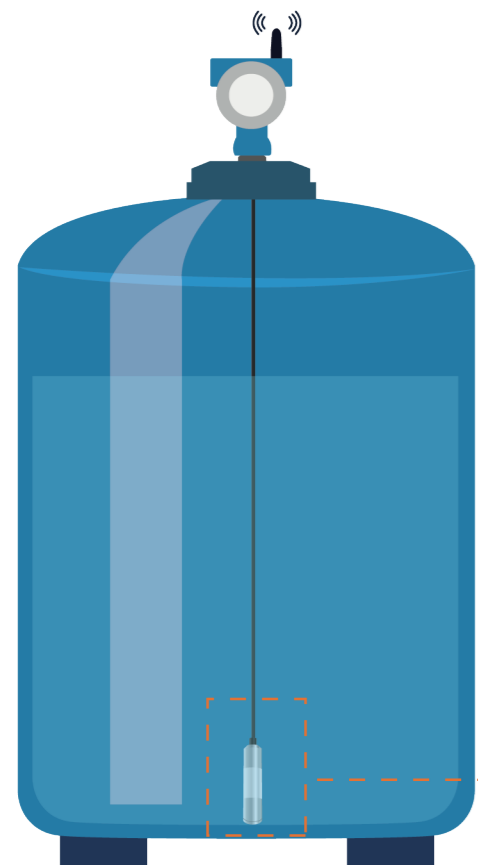
**MLM Series**



Features	Ultrasonic Level Meter	Radar Level Meter	Magnetostrictive Level Meter
Range	5m~50m	0m~35m/70m (High Frequency Radar)	0.05m~20m
Output Signal	4~20mA DC    RS485, MODBUS_RTU 4~20mA DC+HART    4~20mA DC+RS485	4mA ~20mA DC/HART RS485, MODBUS_RTU	0/4~20mA DC    0~5/10V DC 4~20mA DC+HART    RS485, MODBUS_RTU
Operating Temperature	-20°C~60°C	-40°C~100°C	-40°C~85°C
Accuracy	±0.5%FS	±3mm/±10mm (High Frequency Radar)	±0.05%FS
Certificates	/		

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# Transmitter Applications

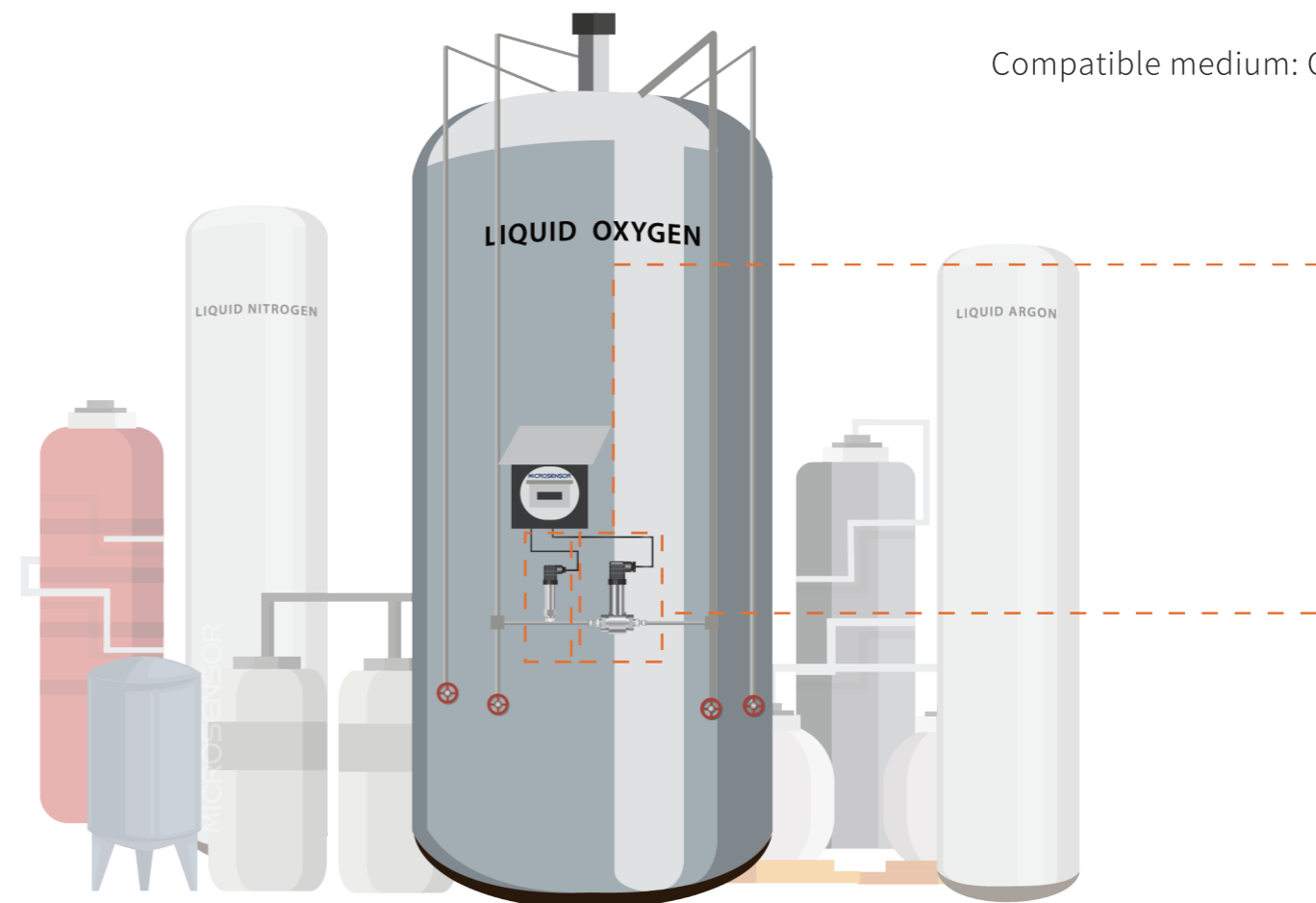


Submersible Level Transmitter for Fuel Tank Level Monitoring

Compatible medium: Diesel, gasoline, fuels, lube, DEF, chemical, propane, water

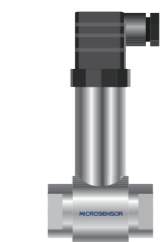


Applications

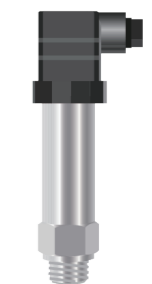


Pressure & Differential Pressure Transmitter for Bulk Cryogenic Tank Level Monitoring

Compatible medium: O<sub>2</sub>, N<sub>2</sub>, CO<sub>2</sub>, H<sub>2</sub>, He, etc.

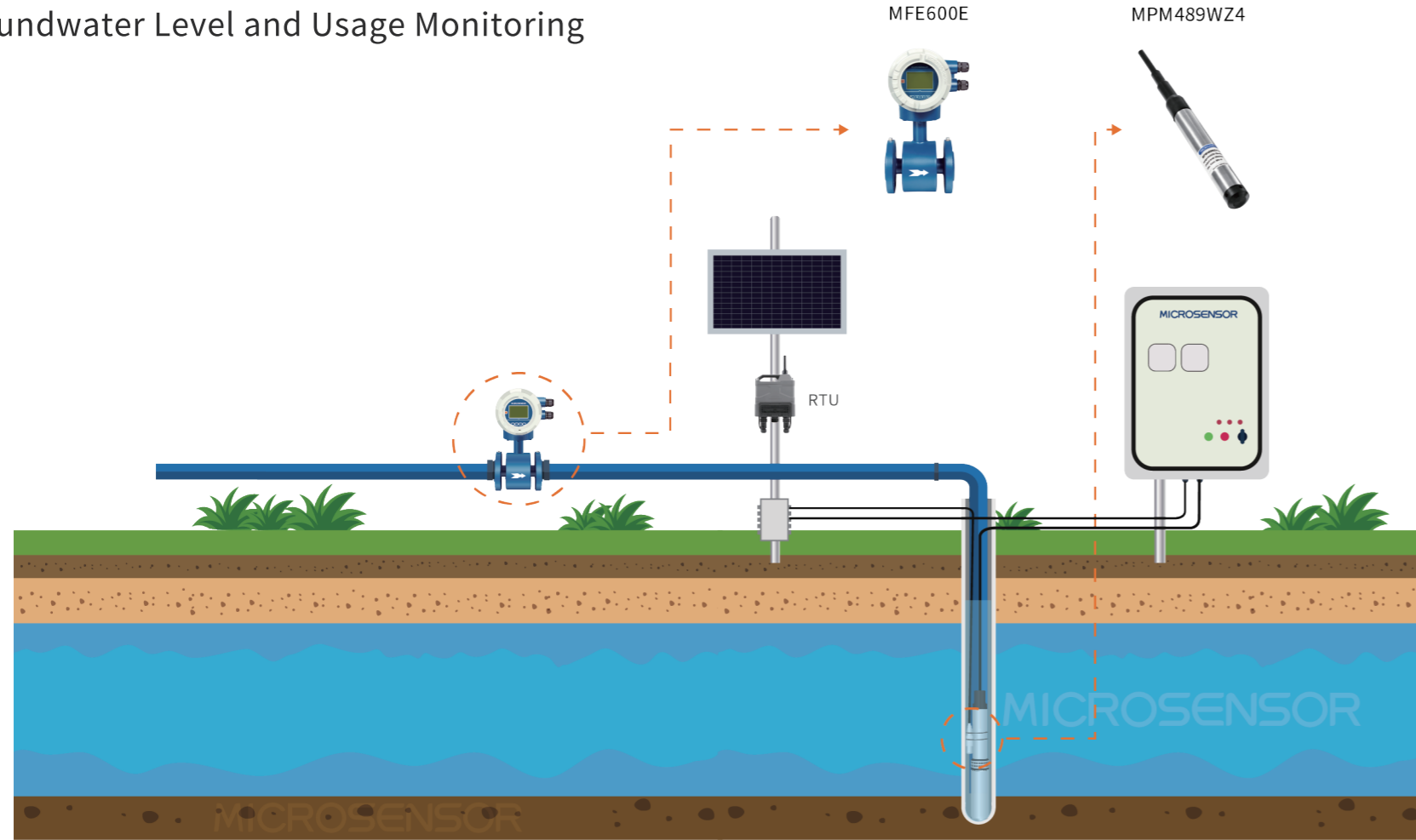


MDM4901FL



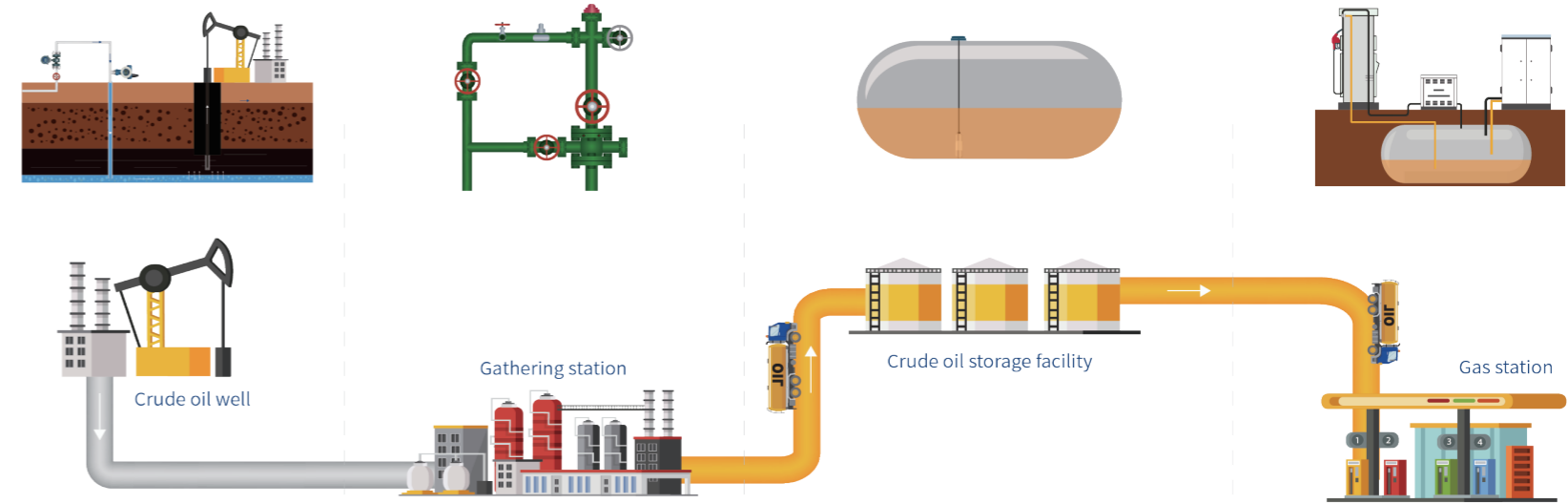
MPM489FL

# Flow Meter & Level Transmitter for Groundwater Level and Usage Monitoring

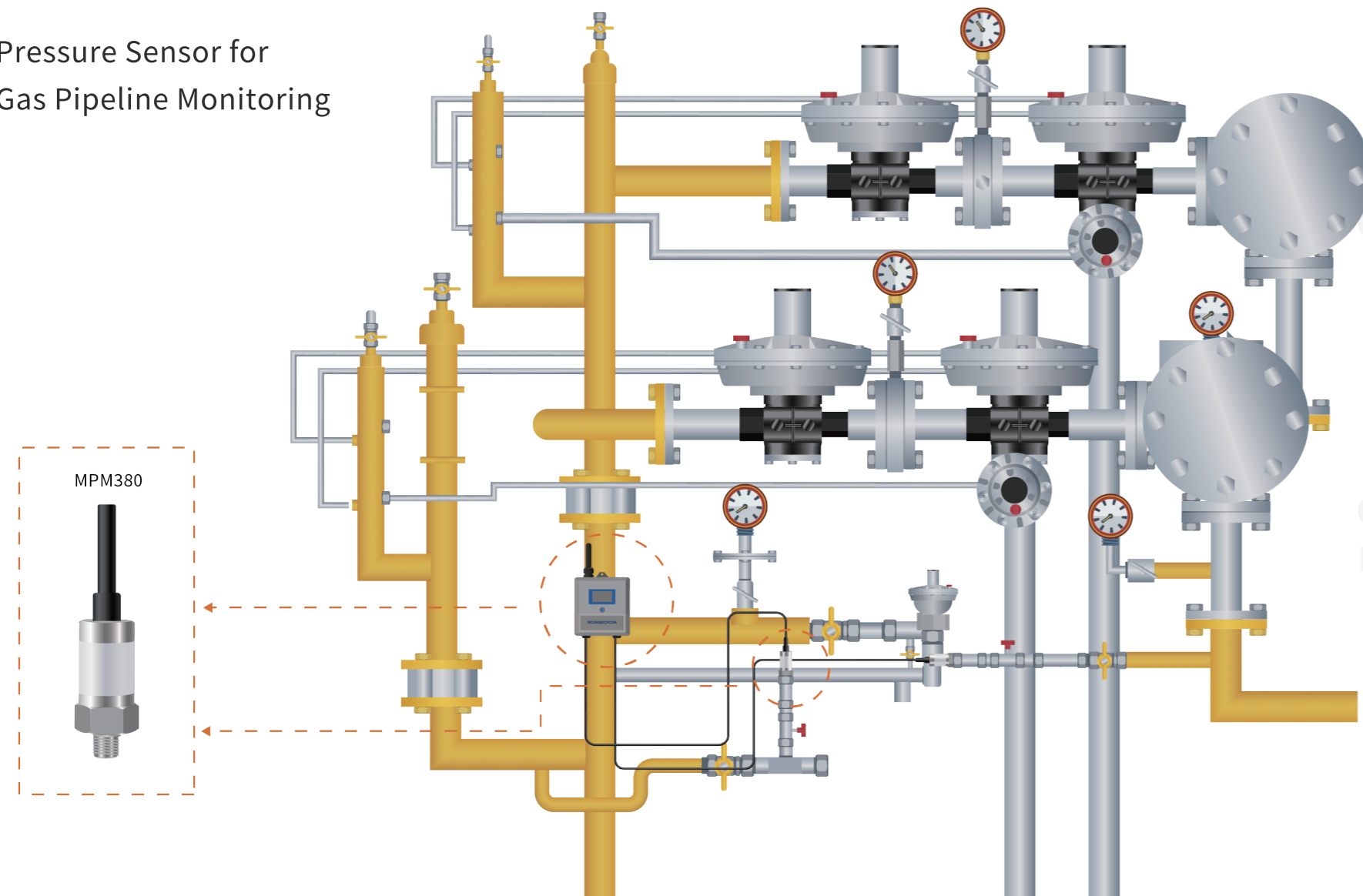


Applications

# Oil and Gas Pipeline Monitoring

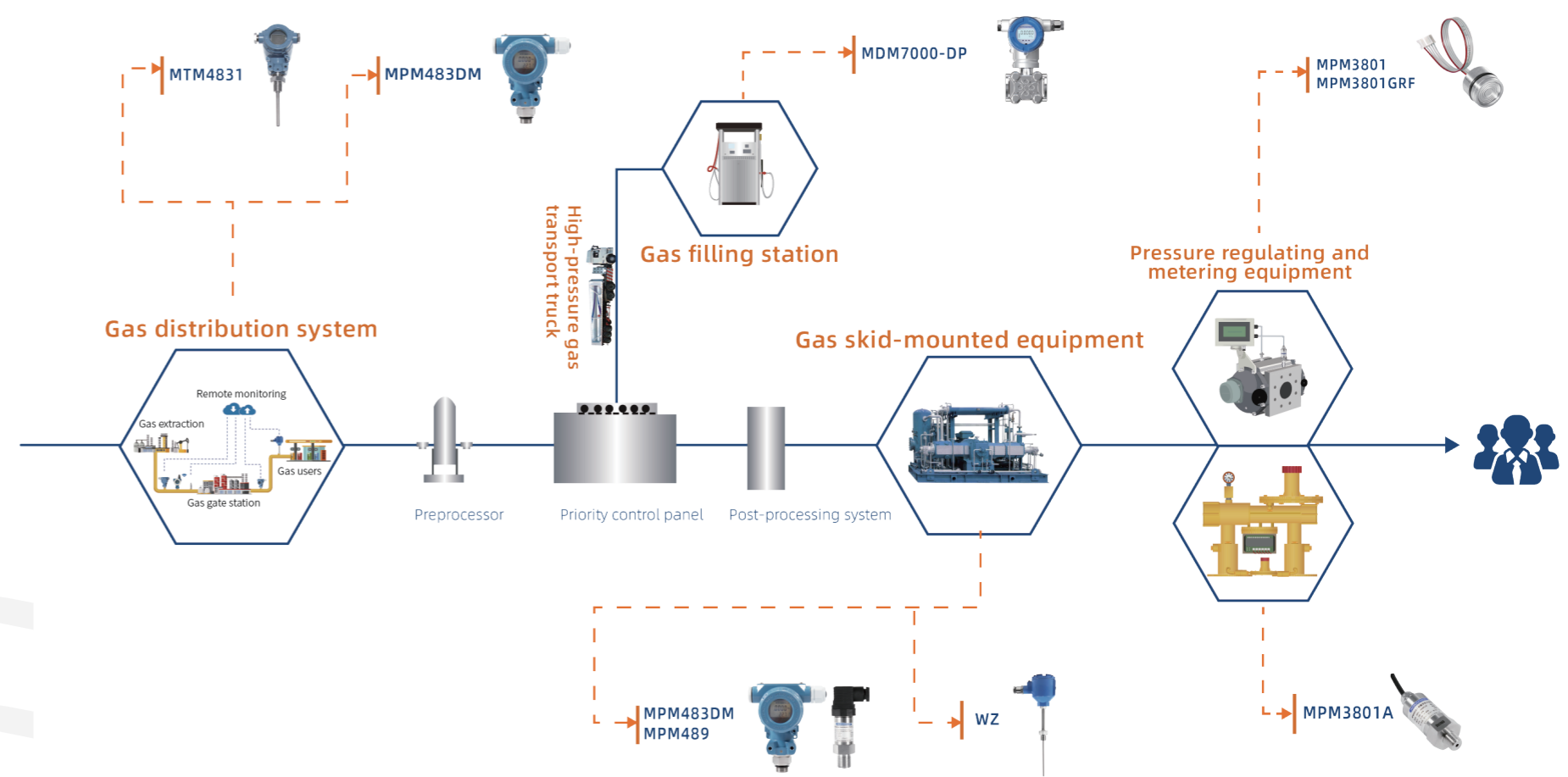


## Pressure Sensor for Gas Pipeline Monitoring

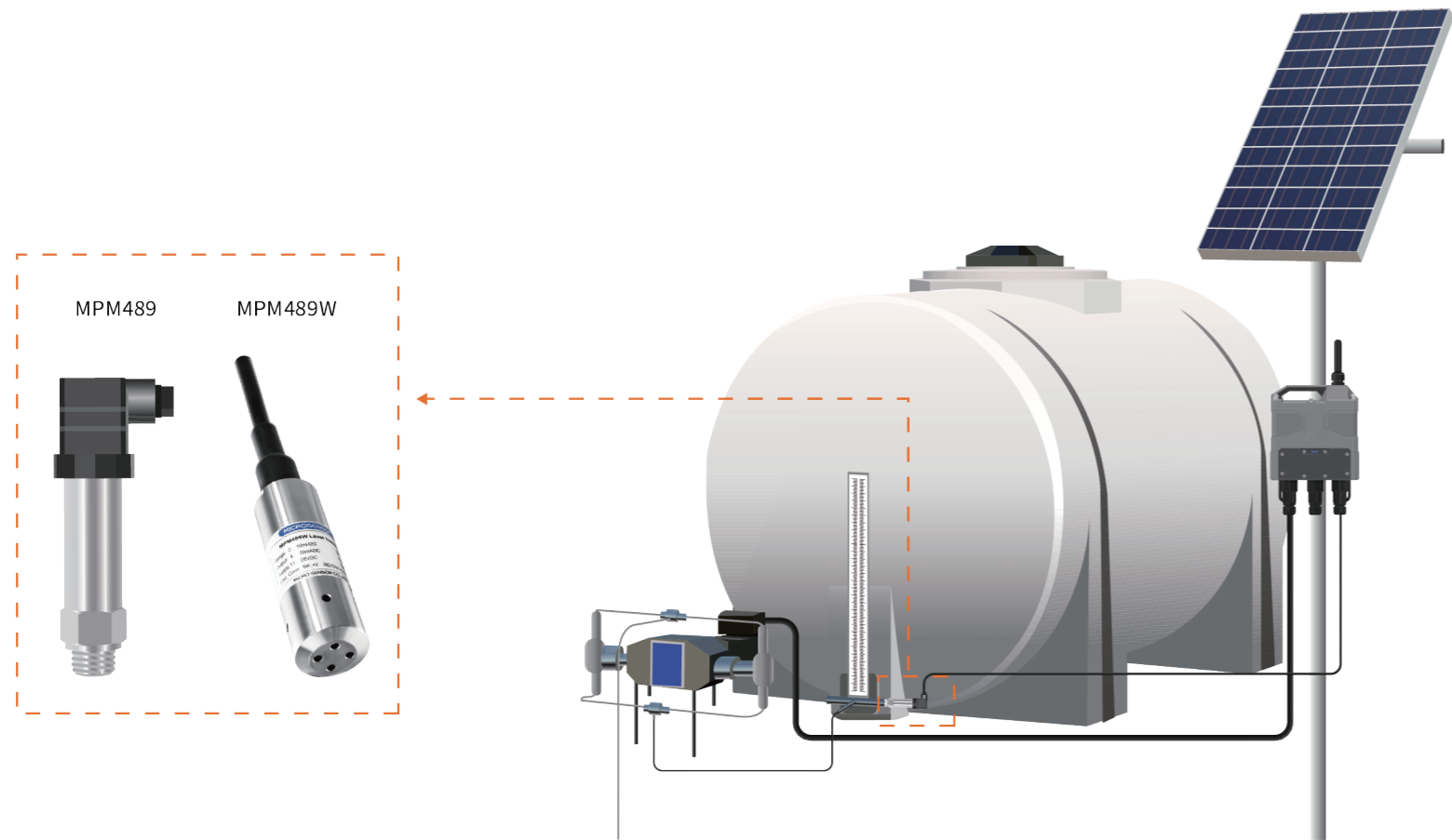


Applications

## Gas System Pressure/Temperature Monitoring

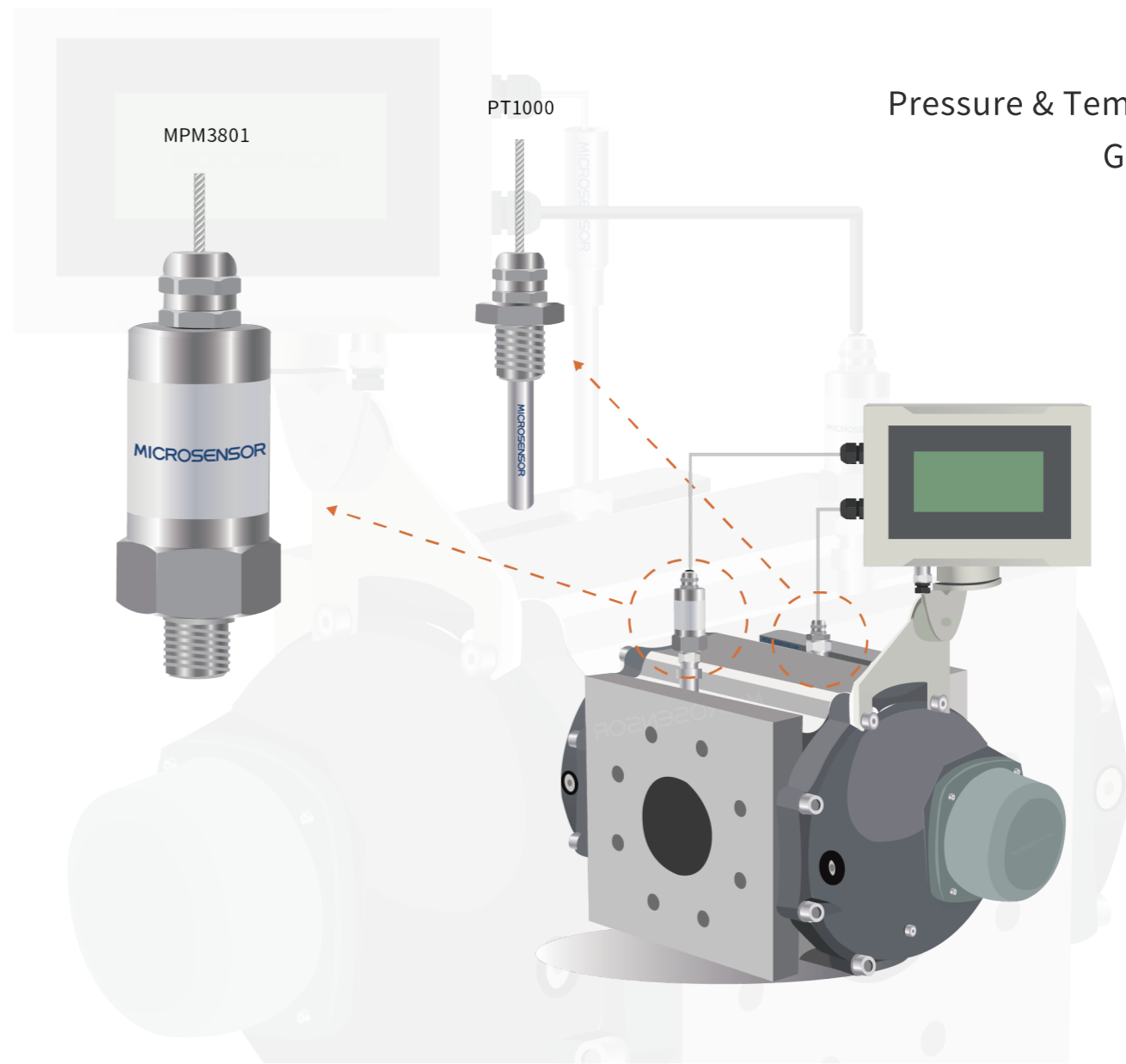


### Level & Pressure Sensor for Chemical Injection System



Applications

### Pressure & Temperature Sensor for Gas Volume Corrector

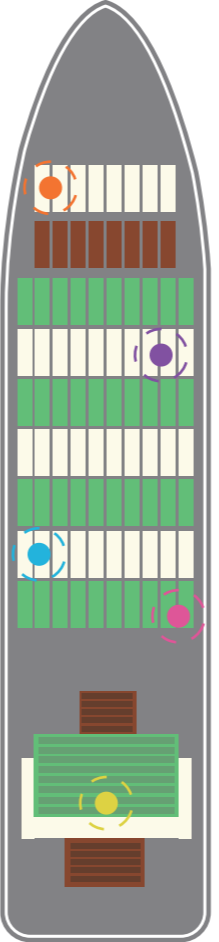


# Pressure Sensor for Coffee Machine

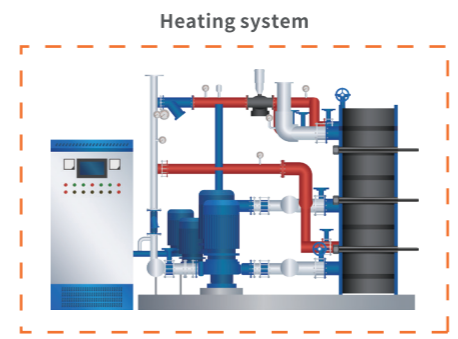


MPM4503

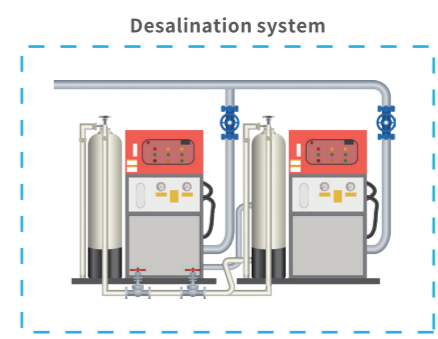
# Applications



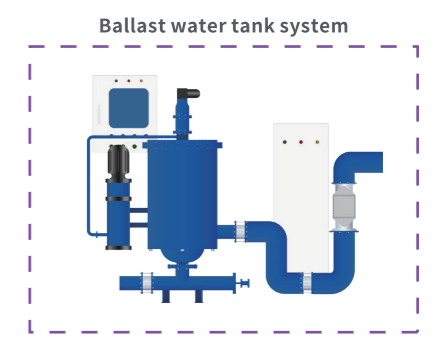
# Ship System Pressure/Level/Flow Monitoring



Heating system



Desalination system



Ballast water tank system



MPM483DM



MEF600E



MPM489



MPM489W



MPM4700



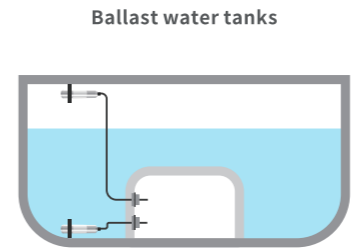
MFC608



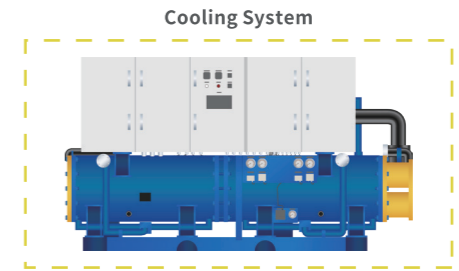
MDM7000



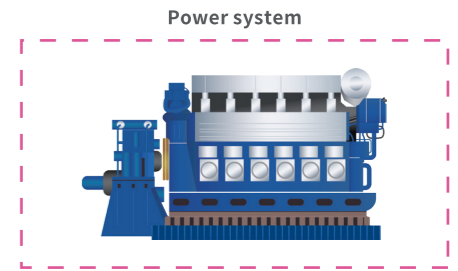
MPM426W Series



Ballast water tanks

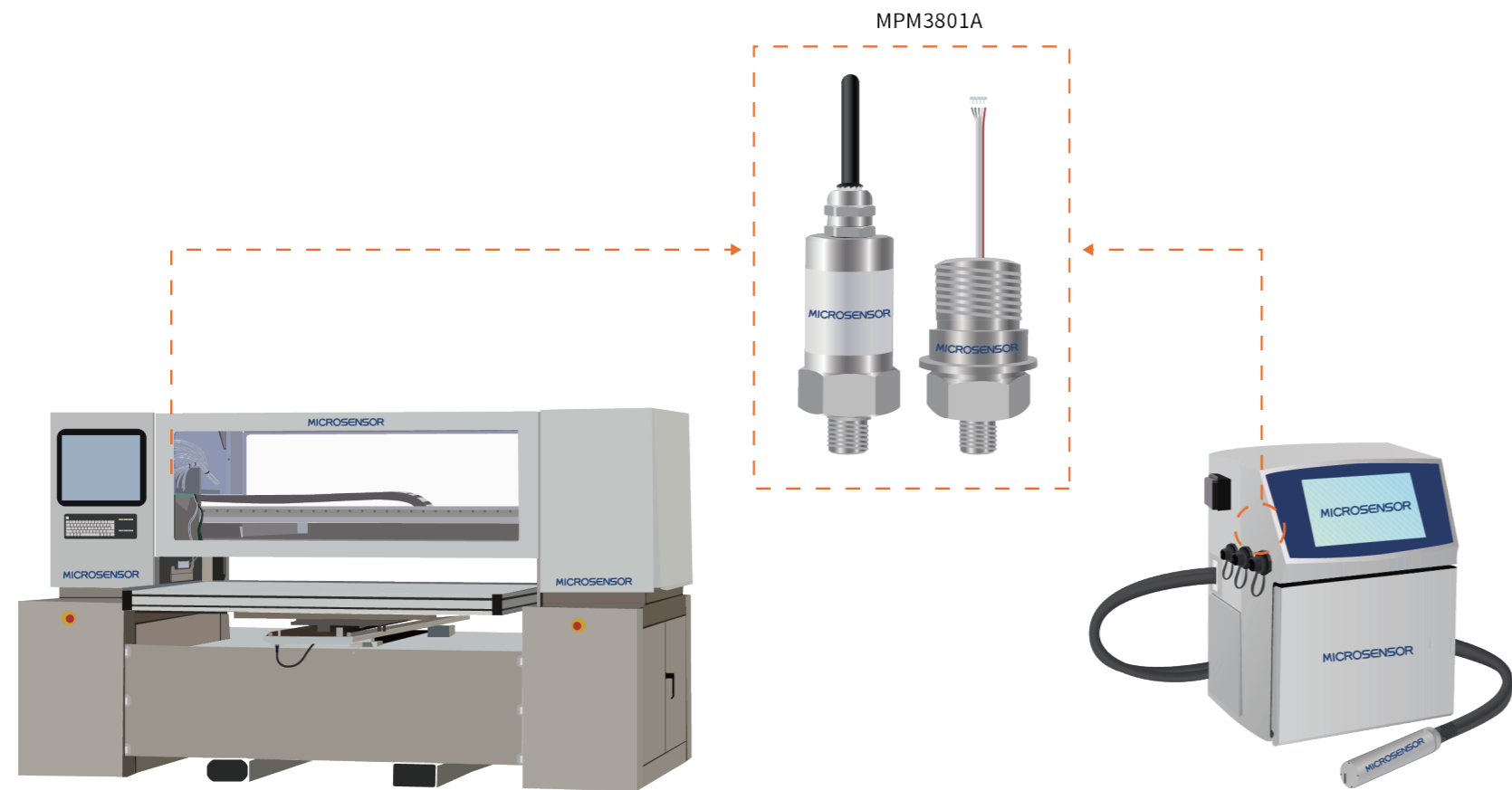


Cooling System



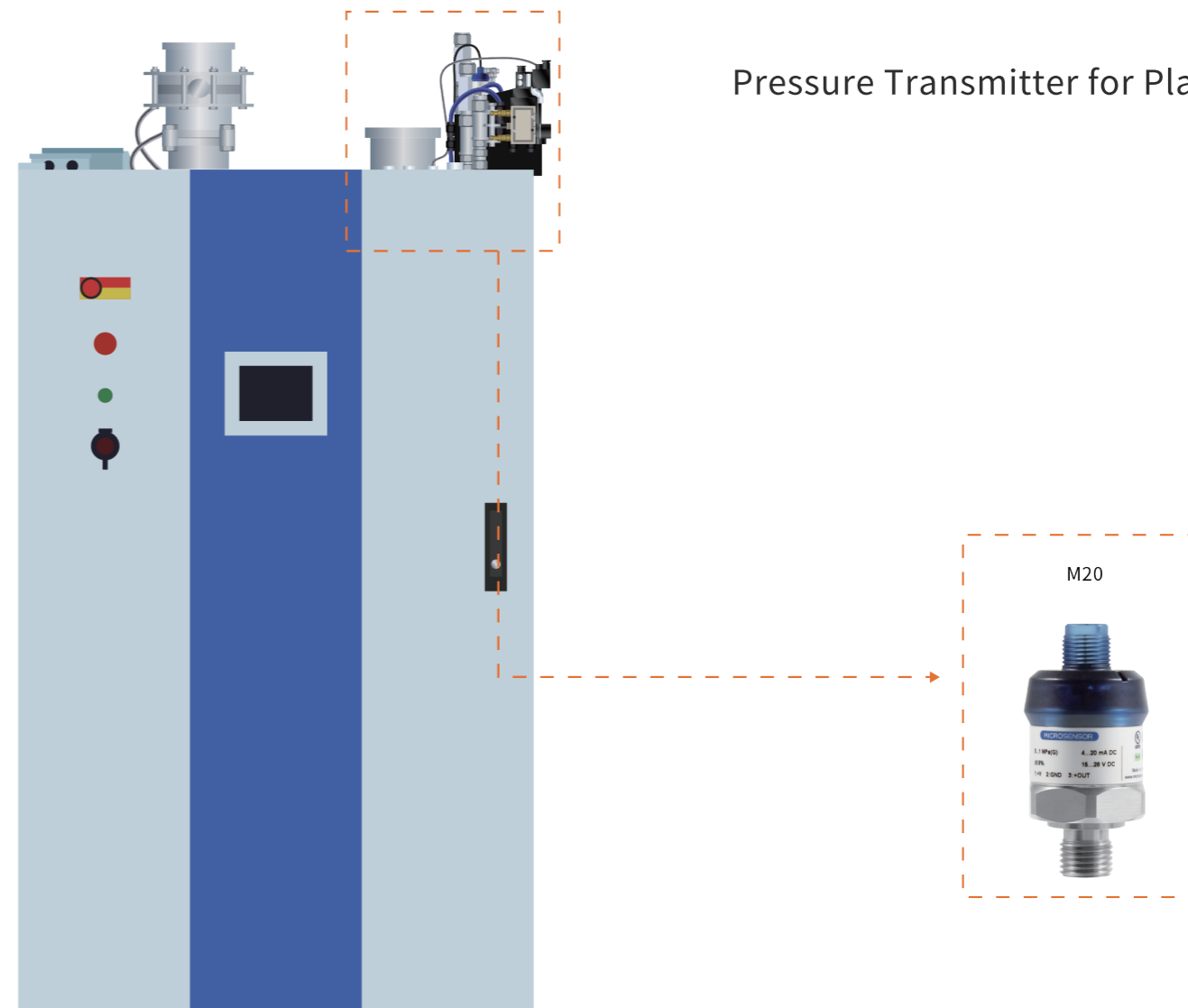
Power system

Pressure Sensor for Printing Industries

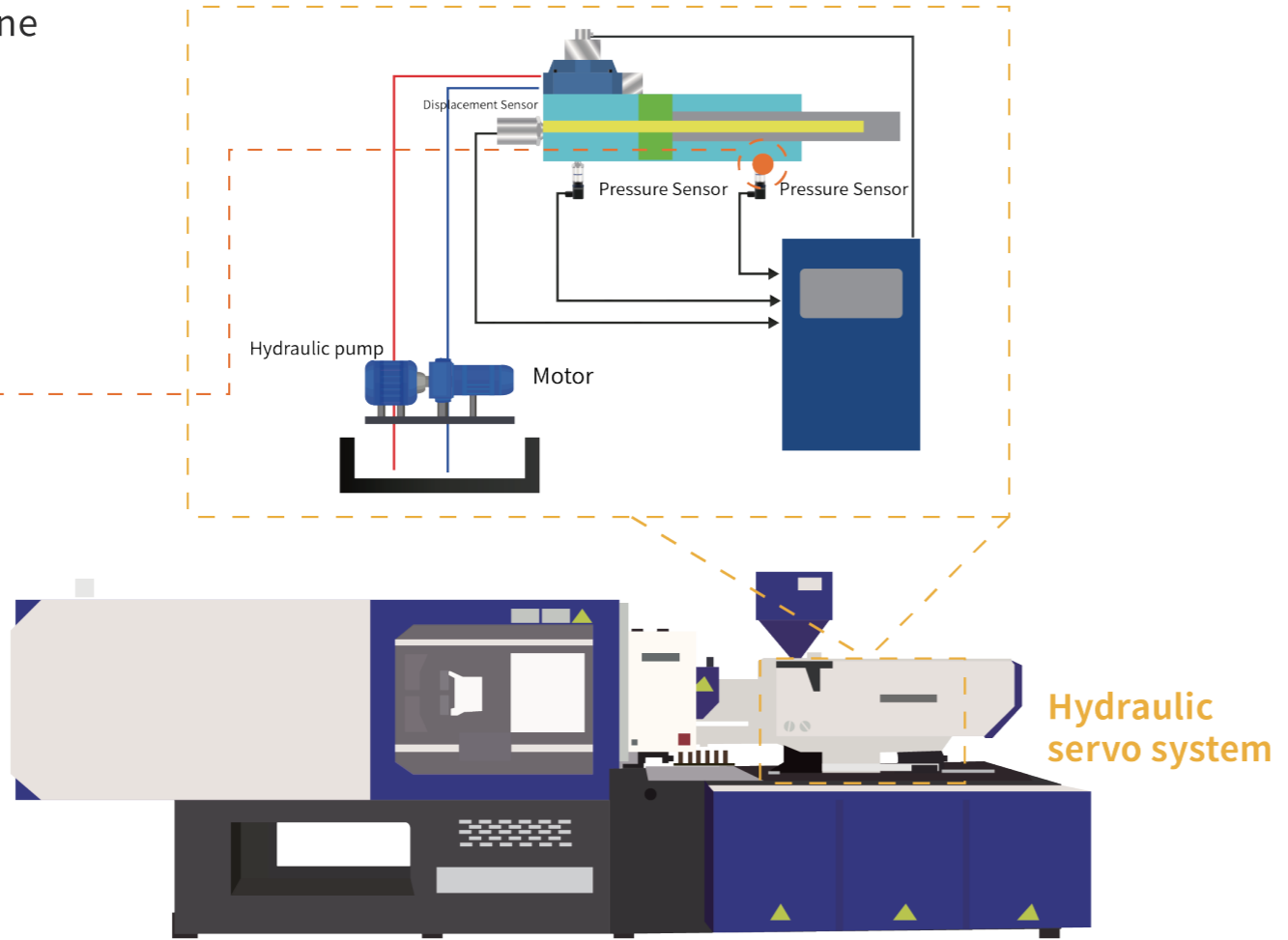


# Applications

Pressure Transmitter for Plasma Scrubber

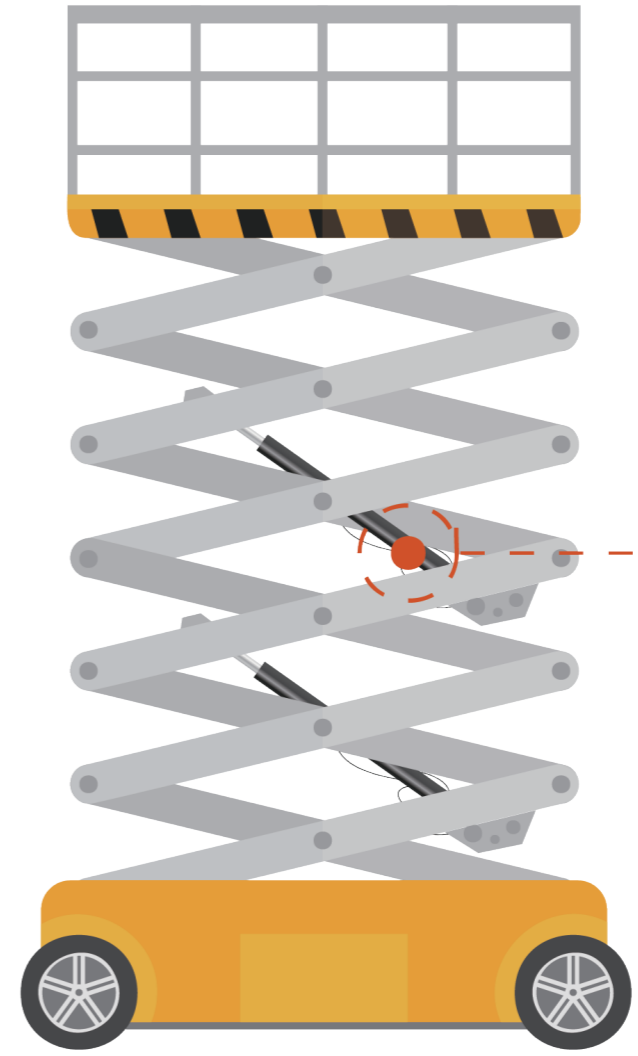


# Pressure Transmitter for Injection Molding Machine



Applications

# Aerial work platforms (AWPs)



MPM4511A