

**Supmea**



# **Food and Beverage Industry Solutions**

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Committed to process automation solutions

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Supmea Co., Ltd., founded in 2006, is a National High-Tech Enterprise specializing in R&D, manufacturing, sales, and service of process automation instruments. With a workforce of nearly 500 employees, the company is headquartered in Hangzhou Qiantang District – a hub integrating a national-level economic-technological development zone, university town, and cross-border e-commerce zone. Its Jiaxing Technology Park in Zhejiang features industry-leading facilities including an electromagnetic flowmeter calibration system, a 1,500 m<sup>2</sup> laboratory, and two world-class SMT assembly lines.

Supmea's product portfolio spans temperature, pressure, flow, level, and analytical instrumentation, deployed across water/wastewater, energy/power, chemical, life sciences, and food/beverage industries. The company maintains over 40 domestic offices in China and has established overseas branches, offices, and warehouses, serving more than 700,000 enterprise clients across 139 countries and regions globally.

# Qualifications and Honors

## Honors



## Explosion-proof Certificate



## Patent Certificate



## Trademark



## CE Certificate



# Supmea & Food and Beverage Industry

## Safeguarding Food Safety at the Source

As a key sector of the global consumer market, the food and beverage industry is undergoing a profound transformation. Diversifying consumer demands, increasing expectations for product quality, and stricter regulatory requirements are driving the industry toward higher standards and enhanced quality. At the same time, rising costs and environmental pressures are compelling enterprises to optimize processes, improve efficiency, and pursue sustainable development.

By adopting advanced automation instruments, manufacturers can achieve precise control over production processes, significantly enhancing efficiency and product quality. Meanwhile, digital platforms enable real-time data collection and analysis, helping to streamline operations, reduce costs, and strengthen food safety management. Supmea is dedicated to providing integrated "automation + digitalization" solutions, empowering food and beverage enterprises to achieve intelligent upgrades and meet the evolving demands of the market.

Dairy production involves highly stringent processes, where precise control at every stage—from milk collection and pasteurization to standardization and homogenization—directly impacts product quality and safety. In particular, accurate temperature control during pasteurization is critical to ensuring effective sterilization while preserving nutritional value.

Supmea supports dairy enterprises with advanced temperature and flow monitoring instruments, integrated with a digital platform for remote monitoring and data analysis. This enables greater precision and consistency in pasteurization and standardization, while also reducing energy consumption and operational risks.

## Dairy Products

## Beer

In beer production, mashing and fermentation are critical stages that determine product quality. During mashing, precise control of water temperature and malt ratio is essential to maintain enzyme activity and optimize sugar conversion. In the fermentation stage, consistent control of temperature and pressure is key to ensuring flavor uniformity.

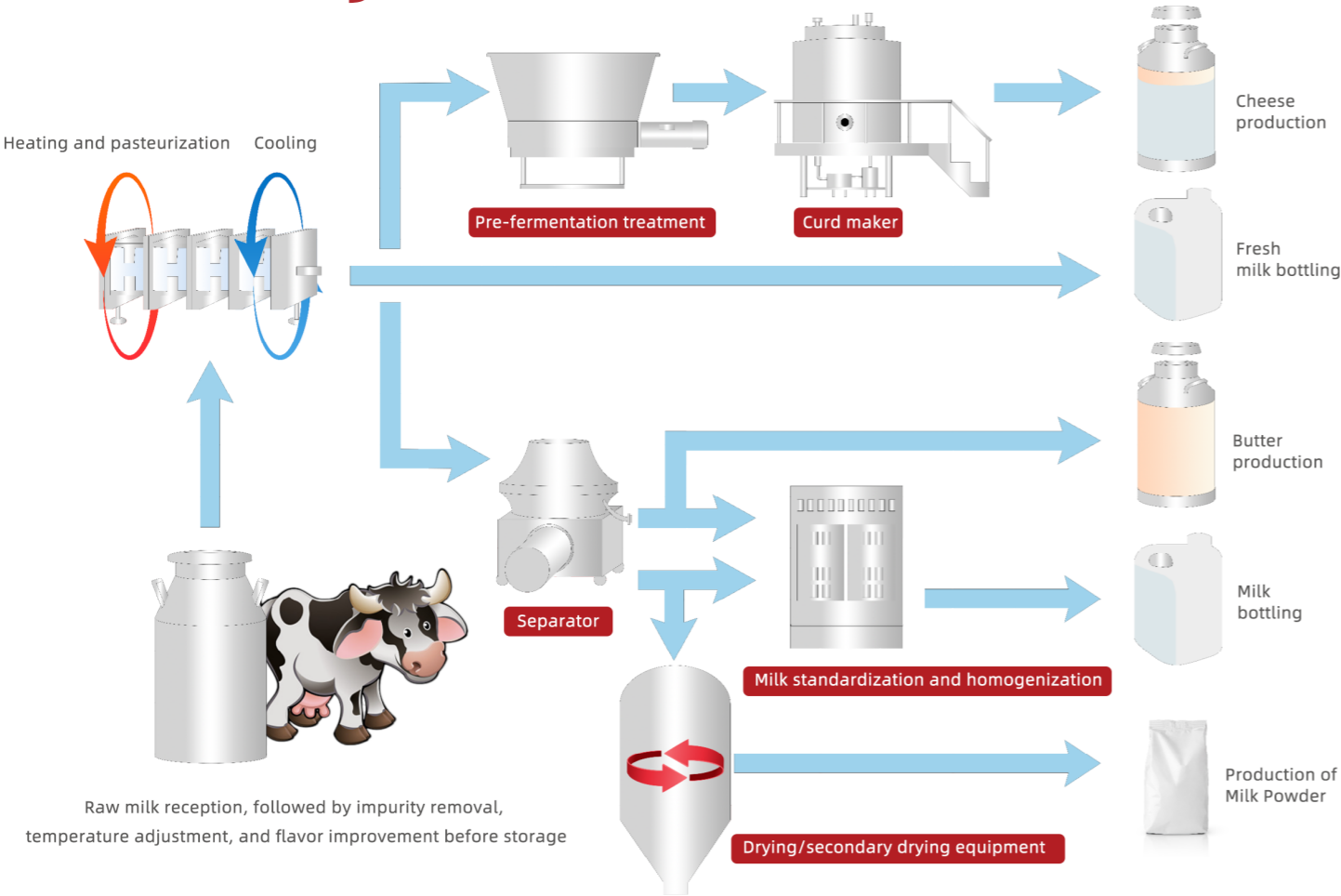
Supmea's solutions cover precise temperature control in the mashing process and real-time pressure monitoring in fermentation tanks. These technologies enhance process stability and controllability, reduce human error, improve operational efficiency, and ensure consistent beer flavor across batches.

## CIP Cleaning Process

In the food and beverage industry, cleaning processes are critical to equipment hygiene and contamination prevention—especially when production batches change frequently. The efficiency and reliability of CIP (Clean-in-Place) systems directly impact production continuity. Precise control of temperature, pressure, and flow rate during cleaning is essential to avoid under-cleaning, which poses food safety risks, or over-cleaning, which leads to resource waste.

Supmea provides comprehensive technical support for CIP systems, ensuring safe and efficient cleaning operations. By optimizing resource usage and reducing cleaning time, Supmea helps enterprises lower costs and improve operational efficiency.

# Product Recommendations for Dairy Process



## A Flow Measurement

**Application Conditions**  
Milk powder processing, fermentation, fermentation culture, dosing, bottling  
**Measured Medium**  
Milk  
**Recommended Product**  
Electromagnetic flow meter LDG-SUP

**Application Conditions**  
Drying, standardization (or homogenization) process  
**Measured Medium**  
Milk  
**Recommended Product**  
Coriolis mass flowmeter FCC300

## B Liquid Analysis Measurement

**Application Conditions**  
Raw milk reception, fermentation treatment, fermentation culture, dosing  
**Measured Medium**  
pH control of milk  
**Recommended Product**  
High-temperature glass electrode PH-5015  
Paired with MDC series universal transmitter

**Application Conditions**  
Conductivity measurement during raw milk reception  
**Measured Medium**  
Milk  
**Recommended Product**  
Stainless steel conductivity electrode TDS-7001  
Paired with MDC series universal transmitter

## C Level Measurement

**Application Conditions**  
Vacuum degassing tank  
**Measured Medium**  
Milk  
**Recommended Product**  
Guided wave radar level meter RD702

**Application Conditions**  
Fresh milk storage tank, fermentation processing, fermentation culture ratio dosing, aseptic tank  
**Measured Medium**  
Milk  
**Recommended Product**  
80G Hrzadar level meter WSR550  
Flat membrane pressure transmitter SUP-P3000

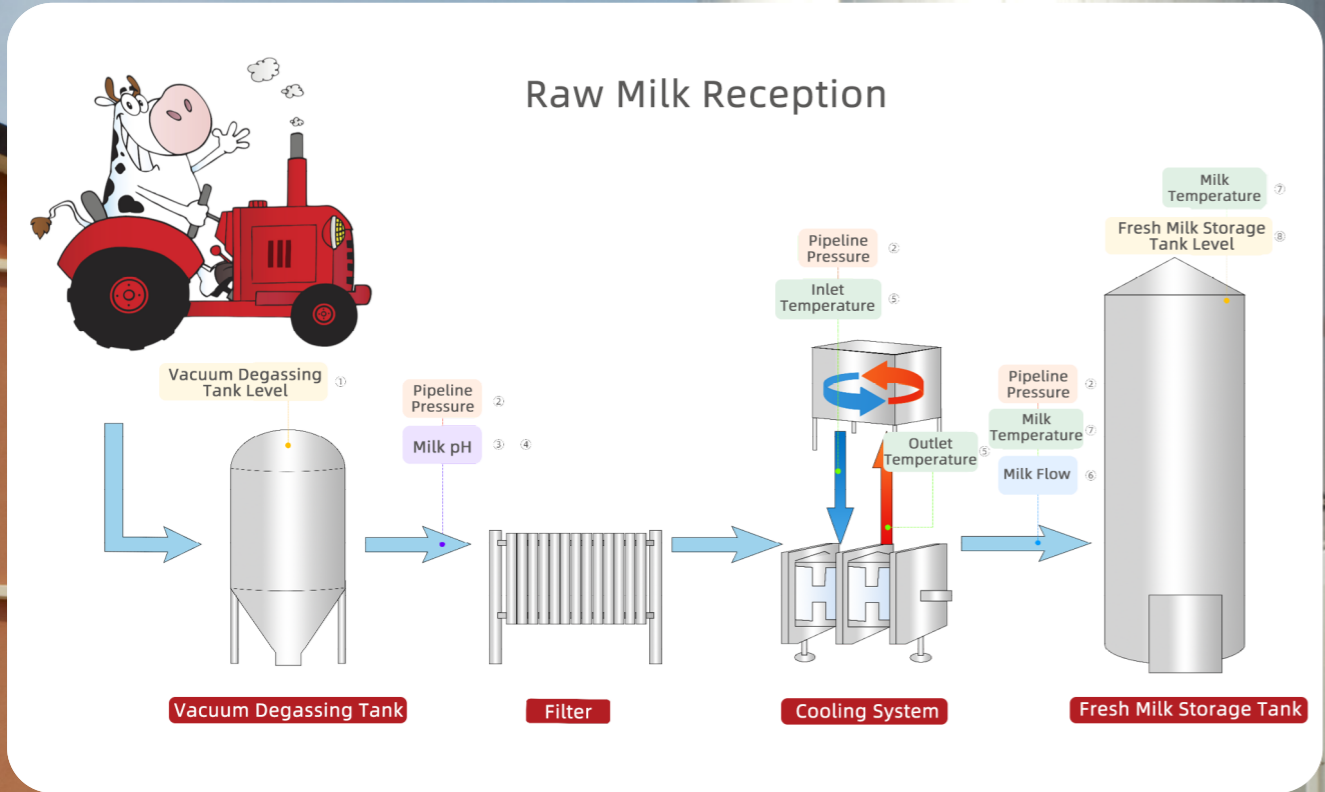
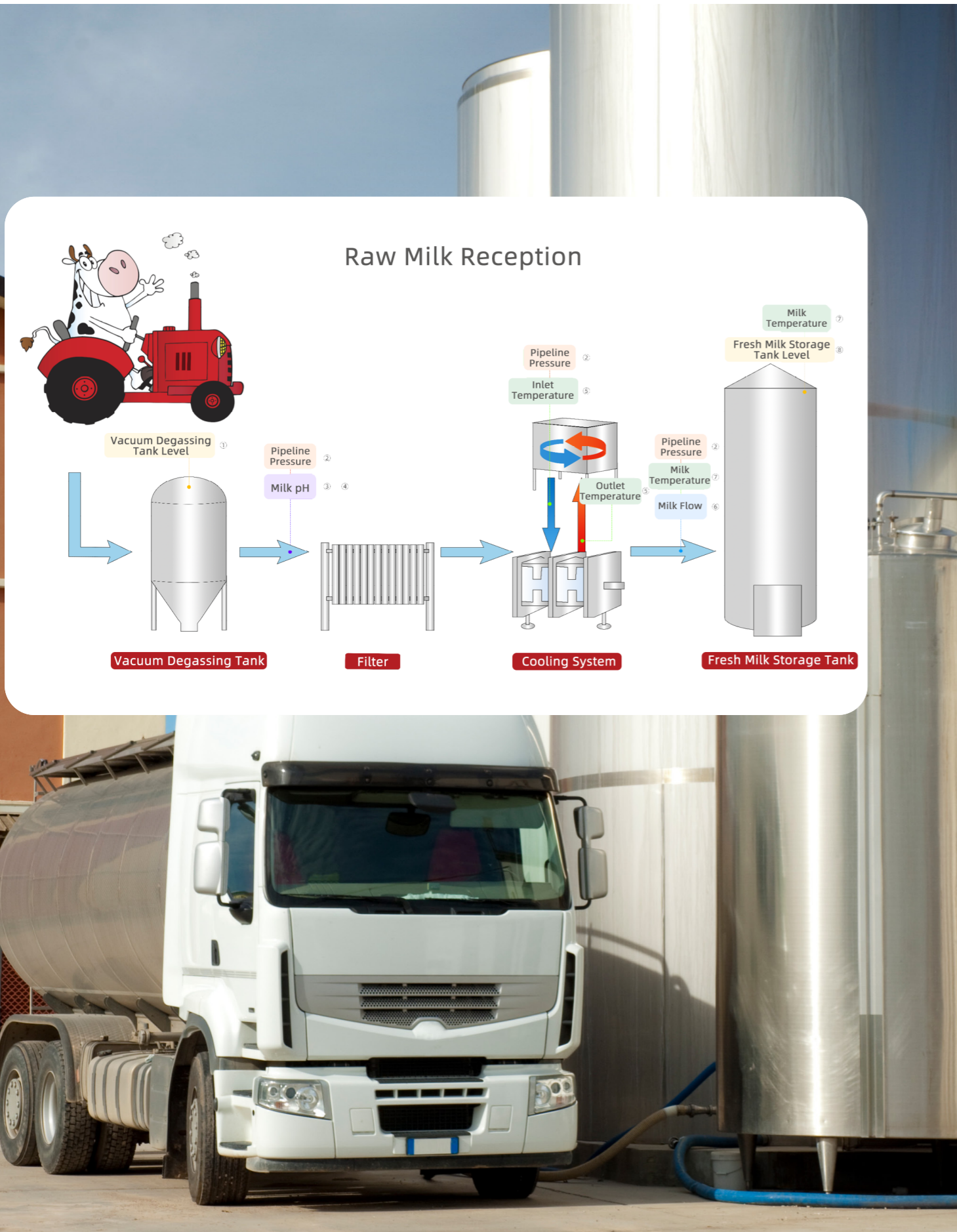
## D Pressure Measurement

**Application Conditions**  
Cooling circulation loop supply, evaporator  
**Measured Medium**  
Cooling medium  
**Recommended Product**  
Flat membrane pressure transmitter SUP-P3000  
**Application Conditions**  
Milk powder processing, fermentation processing, fermentation culture dosing  
**Measured Medium**  
Tank internal gas pressure  
**Recommended Product**  
Flat membrane pressure transmitter P350

## E Temperature Measurement

**Application Conditions**  
Fresh milk storage tank, heat exchanger, milk powder processing, fermentation treatment, fermentation culture dosing, aseptic tank  
**Measured Medium**  
Milk  
**Recommended Product**  
Integrated temperature transmitter P202

**Application Conditions**  
Cooling circulation loop supply, heat exchanger, fermentation treatment  
**Measured Medium**  
Cooling medium  
**Recommended Product**  
Armored resistance thermometer SUP-WRNK



**01 Easy-to-Maintain Guided Wave Radar Level Meter RD702**  
Meets high-precision and stable real-time level measurement requirements

- Strong anti-interference, unaffected by foam;
- Wide temperature range, stable operation within (-40~200)° C;
- Can withstand pressures of (-0.1~0.3) MPa;
- Stable output of (4~20) mA signal;
- Suitable for measuring tank heights up to 10 meters.



**02 Compact Pressure Transmitter (Hesemann Model) P350**  
Real-time monitoring of pipeline conveying pressure to ensure production safety

- High protection rating of IP68, all-stainless steel structure, strong corrosion resistance and durability, ideal for milk production environments where hygiene and longevity are crucial;
- Equipped with a mini amplifier, supporting various signal outputs such as voltage, current, and RS485, meeting the needs of different control systems;
- Compact and versatile design, making it easy to install and arrange on milk production pipelines, reducing installation difficulty and time.



**03 High-Temperature and Corrosive Medium Resistant Glass Electrode PH-5015**  
For continuous pH measurement of raw milk reception

- High-temperature tolerance up to 130° C, suitable for boiling environments;
- Resistant to mechanical shock, ensuring the protection of the bulb;
- Double liquid junction structure for more stable measurements;
- Lead-free glass material, meeting hygiene requirements;
- Wide measurement range, covering 0~14 pH;
- NTC/PT temperature compensation, suitable for temperature fluctuations;
- Ag/AgCl reference, improving measurement accuracy;
- Ceramic salt bridge, providing single-point stability and reliability.



Works with the MDC series universal transmitters for stable operation.



**04 Digital/Analog Fully Compatible MDC Series Universal Transmitter**  
Smart IoT module optional, mobile APP for data viewing

- Mixed analog and digital input with automatic recognition, plug-and-play;
- High impedance signal collection, isolating external interference to effectively avoid data fluctuations;
- Storage capacity of over 50,000 data points, with one-year traceability;
- Simple and aesthetically pleasing interface, with quick switching between digital display and curve mode.



**05 Fast-Response RTD Temperature Sensor SUP-WRKN**  
Real-time monitoring of raw milk temperature in storage tanks

- Integrated junction box structure with high-efficiency waterproofing, resistant to condensation for reliable internal circuit protection;
- Fast thermal response for accurate and rapid temperature measurement;
- Equipped with a Pt100 temperature sensor, supports multiple output types for convenient remote monitoring.

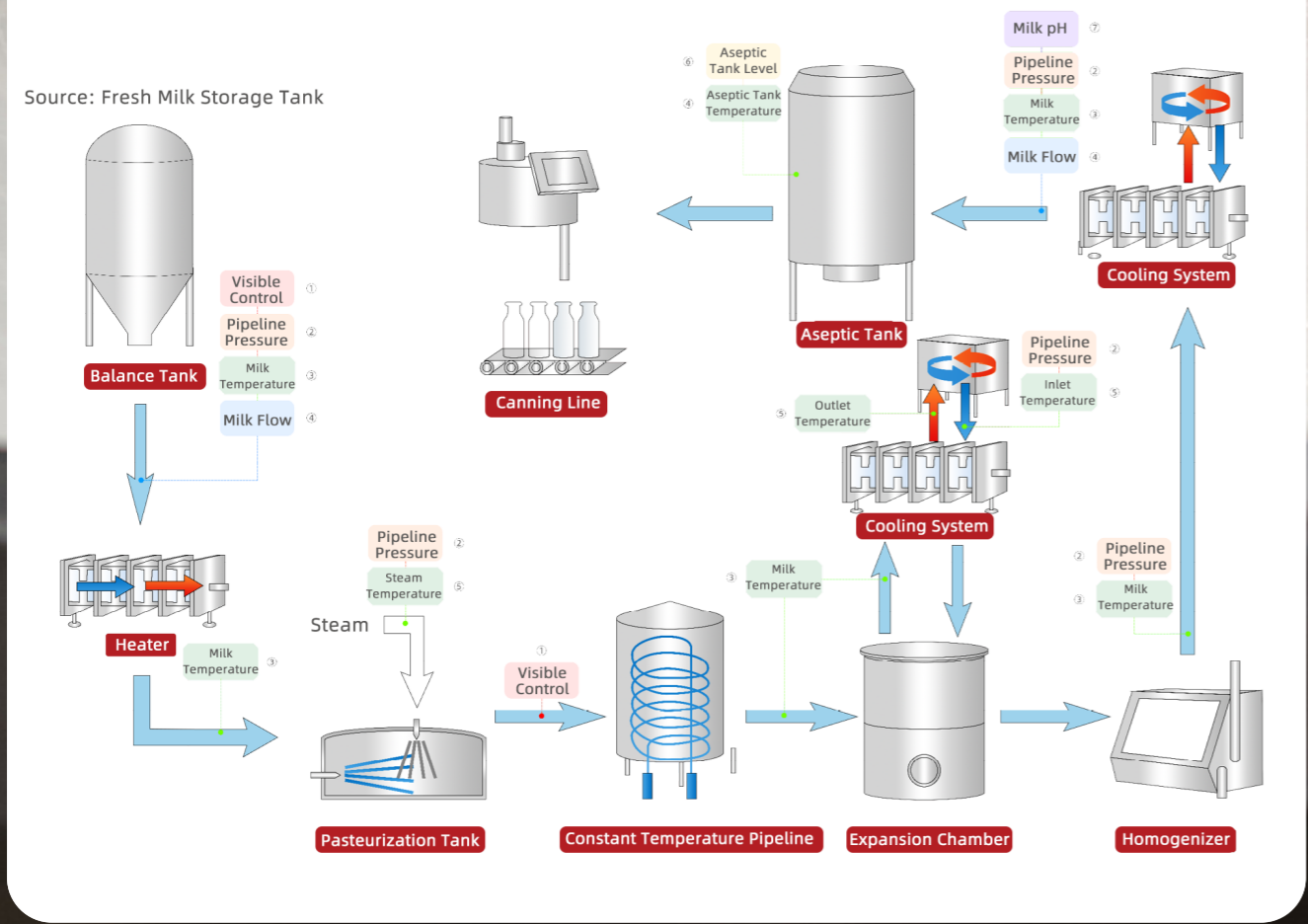


**06 FCC300 Series Coriolis Mass Flowmeter (Straight-Tube Type)**  
Ideal for measuring raw milk flow after reception in dairy processing

- High-accuracy density measurement helps ensure precise quality control of raw milk;
- Easy installation with no requirement for upstream or downstream straight pipe sections;
- Reliable operation with low maintenance rate, reducing downtime and maintenance costs;
- Multiple output options available for seamless integration into control systems;
- Straight-tube design eliminates liquid retention, ensuring hygienic processing.



### Milk Heating and Pasteurization



#### 01 User-Friendly Paperless Recorder RN6000

Ensures accurate data recording, fast transmission, and efficient management

- High-definition full-color display for intuitive visualization of milk process data;
- Large-capacity storage, supporting millions of records to ensure data security;
- Standard communication interfaces enable fast and accurate data exchange;
- Remote real-time monitoring of factory data for total control;
- Online firmware upgrades for convenient maintenance and continuous optimization;
- Screenshot recording function for instant capture of critical data;
- Robust power-off protection ensures no data loss and uninterrupted operation.



#### 02 Flush Diaphragm Pressure Transmitter SUP-P3000 with Automatic Temperature Compensation

Eliminates fouling and clogging issues, ensuring accurate pressure measurement

- High precision of 0.075% ensures reliable data output;
- Multiple output options for flexible system integration;
- Automatic temperature compensation ensures measurement accuracy;
- Wide operating temperature range suited for food production environments;
- High overload resistance for enhanced equipment safety;
- Excellent long-term stability reduces maintenance costs.



#### 03 Versatile and Convenient Integrated Temperature Transmitter P202

Ensuring accurate and reliable temperature monitoring and control for milk processing

- Designed with vibration resistance and strong immunity to radio frequency interference (RFI), enabling stable operation in complex industrial environments;
- Wide measuring range to accommodate various temperature monitoring requirements throughout the milk production process.



#### 04 High-Performance Electromagnetic Flowmeter LDG-SUP

Specifically designed for monitoring the flow of milk and other conductive liquids

- High flow measurement accuracy up to 0.3% FS;
- Suitable for low conductivity media, ideal for milk applications;
- Easy installation with built-in grounding electrodes, no need for external grounding;
- Intelligent diagnostics with empty pipe detection for simplified maintenance.



#### 05 Fast-Response RTD Temperature Sensor SUP- WRNK

Real-time monitoring of raw milk temperature in storage tanks

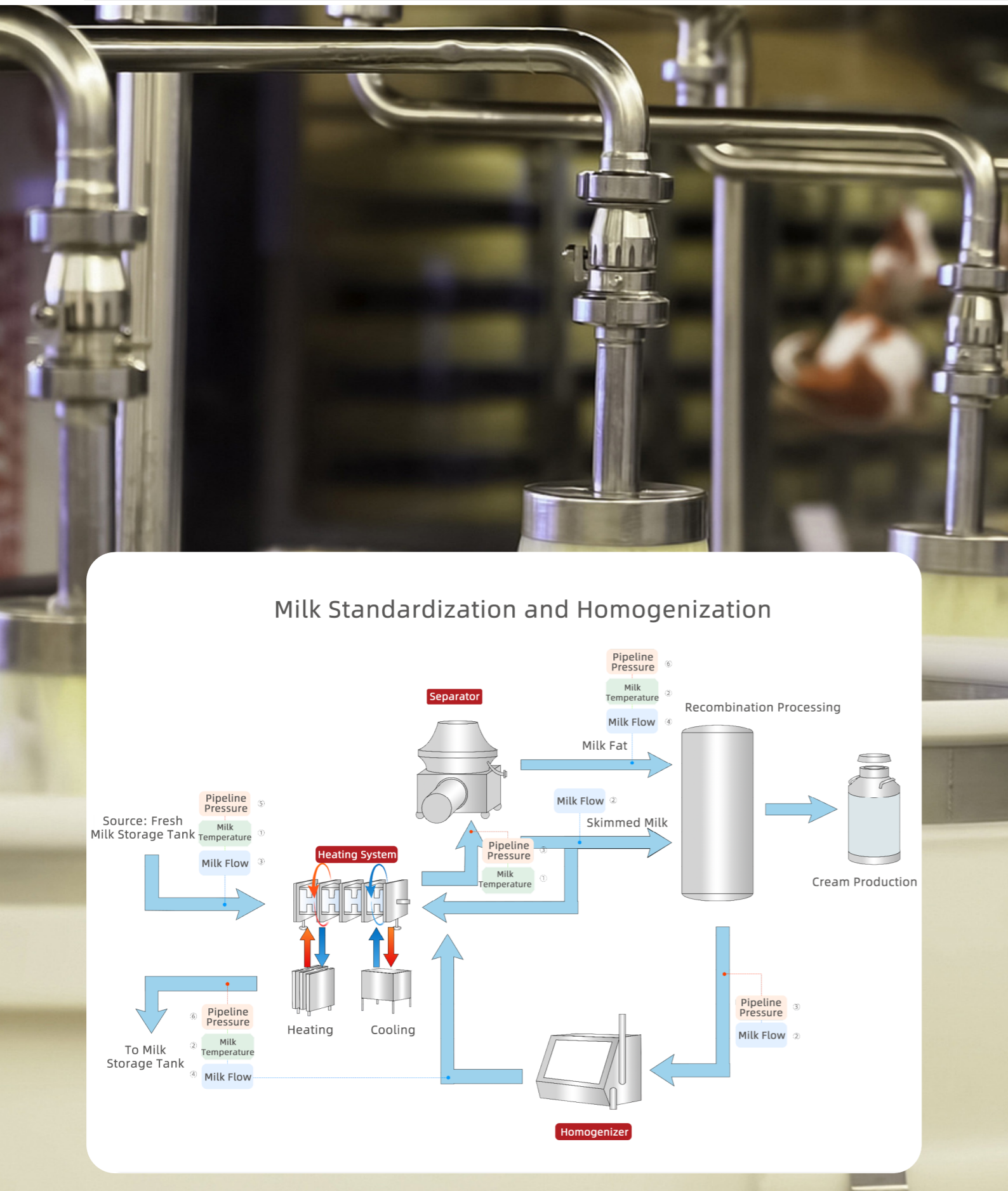
- Integrated junction box structure with high-efficiency waterproofing, resistant to condensation for reliable internal circuit protection;
- Fast thermal response for accurate and rapid temperature measurement;
- Equipped with a Pt100 temperature sensor, supports multiple output types for convenient remote monitoring.



#### 06 80GHz Radar Level Transmitter with Versatile Communication Interfaces, model WSR-550

Enhanced on-site commissioning safety and convenience with versatile communication capabilities

- 80GHz high-frequency radar technology delivers highly accurate tank level measurements, minimizing errors and enhancing data precision;
- Millimeter-wave radar with measurement accuracy up to  $\pm 1$  mm;
- Minimum 32mm lens antenna design, enabling stable operation in complex environments;
- Supports remote debugging and upgrades, with Bluetooth debugging via mobile phone, allowing field personnel to perform device maintenance anytime, anywhere, reducing maintenance costs.



## 01 Fast-Response RTD Temperature Sensor SUP- WRNK

Real-time monitoring of raw milk temperature in storage tanks

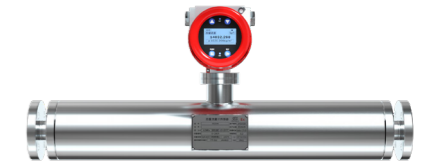
- Integrated junction box structure with high-efficiency waterproofing, resistant to condensation for reliable internal circuit protection;
- Fast thermal response for accurate and rapid temperature measurement;
- Equipped with a Pt100 temperature sensor, supports multiple output types for convenient remote monitoring.



## 02 Versatile and Convenient Integrated Temperature Transmitter P202

Ensuring accurate and reliable temperature monitoring and control for milk processing

- Designed with vibration resistance and strong immunity to radio frequency interference (RFI), enabling stable operation in complex industrial environments;
- Wide measuring range to accommodate various temperature monitoring requirements throughout the milk production process.



### 03 FCC300 Series Coriolis Mass Flowmeter (Straight-Tube Type)

**Flowmeter (Straight Tube Type)**  
Ideal for measuring raw milk flow after reception in dairy processing

- High-accuracy density measurement helps ensure precise quality control of raw milk;
- Easy installation with no requirement for upstream or downstream straight pipe sections;
- Reliable operation with low maintenance rate, reducing downtime and maintenance costs;
- Multiple output options available for seamless integration into control systems;
- Straight-tube design eliminates liquid retention, ensuring hygienic processing.



## 04 High-Performance Electromagnetic Flowmeter LDG-SUP

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- Intelligent diagnostics with empty pipe detection for simplified maintenance.



## 05 Flush Diaphragm Pressure Transmitter SUP-P3000 with Automatic Temperature Compensation

Eliminates fouling and clogging issues, ensuring accurate pressure measurement

- High precision of 0.075% ensures reliable data output;
- Multiple output options for flexible system integration;
- Automatic temperature compensation ensures measurement accuracy;
- Wide operating temperature range suited for food production environments;
- High overload resistance for enhanced equipment safety;
- Excellent long-term stability reduces maintenance costs.



## 06 Compact Pressure Transmitter (Hesemann Model) P350

Real-time monitoring of pipeline conveying pressure to ensure production safety

- High protection rating of IP68, all-stainless steel structure, strong corrosion resistance and durability, ideal for milk production environments where hygiene and longevity are crucial;
- Equipped with a mini amplifier, supporting various signal outputs such as voltage, current, and RS485, meeting the needs of different control systems;
- Compact and versatile design, making it easy to install and arrange on milk production pipelines, reducing installation difficulty and time.

# Product Recommendations for Beer Brewing Process

## A Flow Measurement

**Application Conditions**  
Wort boiling kettle, wort cooler inlet  
**Measured Medium**  
Hop dosage / Wort flow rate  
**Recommended Product**  
Electromagnetic flowmeter LDG-SUP

**Application Conditions**  
Wort boiling kettle  
**Measured Medium**  
Wort density  
**Recommended Product**  
Coriolis mass flowmeter FCC300

## B Level Measurement

**Application Conditions**  
Grain silo (raw material silo), auxiliary material silo  
**Measured Medium**  
Raw materials (e.g., barley) and auxiliary ingredients (e.g., corn, rice)  
**Recommended Product**  
Guided wave radar level transmitter RD701

**Application Conditions**  
Crusher  
**Measured Medium**  
Raw/auxiliary materials, water (for wet or dry crushing)  
**Recommended Product**  
80GHz radar level transmitter WSR550

**Application Conditions**  
Mash tun, lauter tun bottom, wort boiling kettle  
**Measured Medium** Wort  
**Recommended Product**  
80GHz radar level transmitter WSR550

**Application Conditions**  
Lauter tun  
**Measured Medium**  
Wort  
**Recommended Product**  
Flush diaphragm pressure transmitter SUP-P3000



## C Liquid Analysis Measurement

**Application Conditions**  
Wort boiling kettle  
**Measured Medium**  
Wort pH value  
**Recommended Product**  
High-Temperature glass electrode PH-5015  
Compatible with MDC series general-purpose transmitters

## D Pressure Measurement

**Application Conditions**  
Wort boiling kettle  
**Measured Medium**  
Pressure inside the kettle  
**Recommended Product**  
Flat diaphragm pressure transmitter SUP-P3000

**Application Conditions**  
Pressurized hop addition pipeline  
**Measured Medium**  
Pressure inside the pipeline  
**Recommended Product**  
Flat diaphragm pressure transmitter P350

## E Temperature Measurement

**Application Conditions**  
Grain silo, auxiliary material silo, recirculating settling tank, mash tun, pre-run tank, pre-sample tank, wort boiling kettle  
**Measured Medium**  
Temperature  
**Recommended Product**  
Armor-Plated thermocouple SUP-WRNC  
Integrated temperature transmitter P202



**01 Versatile and Convenient Integrated Temperature Transmitter P202**

Measures the temperature of wort in the mash tun and hot water in the water supply pipeline

- With resistance to vibration and electromagnetic interference, it can operate stably in complex environments such as high temperature, high pressure, mechanical vibration, and electromagnetic interference within the mash tun, ensuring the accuracy and reliability of temperature measurements;
- Wide measuring range to meet the temperature measurement requirements of wort in the mash tun and hot water in the water supply pipeline in beer production.



**02 High-Temperature and Corrosive Medium Resistant Glass Electrode PH-5015**

Used for pH measurement of wort and process water

- High-temperature tolerance up to 130°C, suitable for boiling environments;
- Resistant to mechanical shock, ensuring the protection of the bulb;
- Double liquid junction structure for more stable measurements;
- Lead-free glass material, meeting hygiene requirements;
- Wide measurement range, covering 0~14 pH;
- NTC/PT temperature compensation, suitable for temperature fluctuations;
- Ag/AgCl reference, improving measurement accuracy;
- Ceramic salt bridge, providing single-point stability and reliability.



Works with the MDC series universal transmitters for stable operation.



**03 Wide Measurement Range Vortex Flowmeter SUP-LUGB-C**

Suitable for real-time monitoring of steam consumption during the mashing process

- No moving parts in the main body, offering long-term stability and reducing downtime caused by component wear or failure;
- Gas measurement accuracy of  $\pm 1.5\%$ , ensuring precise control of the mashing and boiling process and product quality;
- Flexible installation options, allowing horizontal, vertical, or angled installation, with strong adaptability for use in various complex environments;
- Integrated pressure and temperature compensation, ensuring high-precision steam measurement.



**04 80GHz Radar Level Transmitter with Versatile Communication Interfaces, model WSR550**

Non-contact measurement of crusher material level and mashing tank liquid level

- 80GHz high-frequency radar technology delivers highly accurate tank level measurements, minimizing errors and enhancing data precision;
- Millimeter-wave radar with measurement accuracy up to  $\pm 1\text{mm}$ ;
- Minimum 32mm lens antenna design, enabling stable operation in complex environments;
- Supports remote debugging and upgrades, with Bluetooth debugging via mobile phone, allowing field personnel to perform device maintenance anytime, anywhere, reducing maintenance costs.



**05 FCC300 Series Coriolis Mass Flowmeter (Straight-Tube Type)**

Easily handles flow measurement conditions in beer production

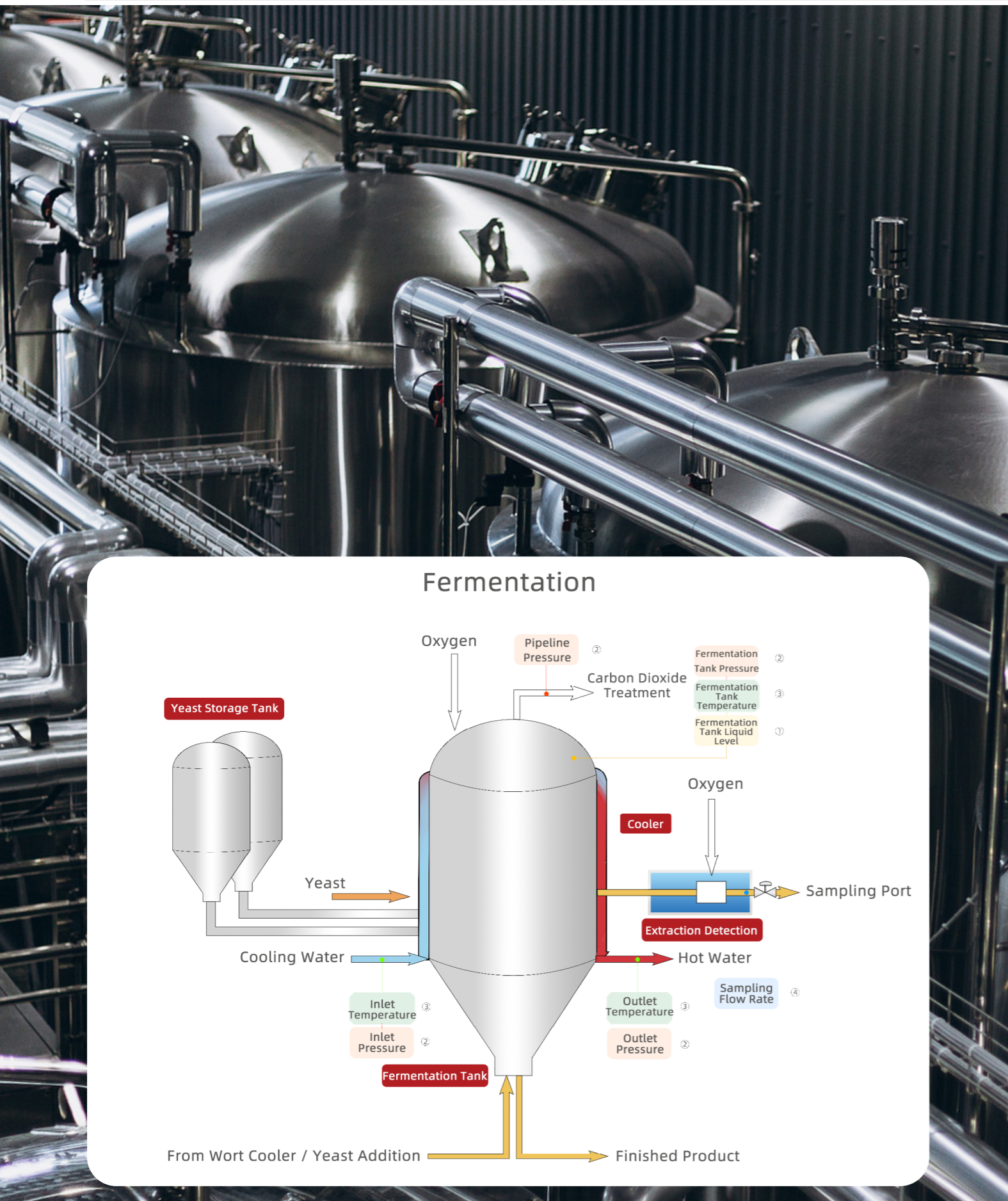
- High-density measurement accuracy, suitable for measuring wort flow at different concentrations and temperatures;
- Easy installation with no requirement for upstream or downstream straight pipe sections;
- Reliable operation with low maintenance rate, reducing downtime and maintenance costs;
- Multiple output options available for seamless integration into control systems;
- Straight-tube design eliminates liquid retention, ensuring hygienic processing.



**06 Compact Pressure Transmitter (Hesemann Model) P350**

Real-time monitoring of pipeline conveying pressure to ensure production safety

- High protection rating of IP68, all stainless steel construction, offering strong corrosion resistance and durability;
- Equipped with a mini amplifier, supporting various signal outputs such as voltage, current, and RS485, meeting the needs of different control systems;
- Compact and versatile design, making it easy to install and arrange on milk production pipelines, reducing installation difficulty and time.



**01 Compact Pressure Transmitter (Hesemann Model) P350**  
Compact static pressure level measurement

- High protection rating of IP68, all stainless steel construction, offering strong corrosion resistance and durability;
- Equipped with a mini amplifier, supporting various signal outputs such as voltage, current, and RS485, meeting the needs of different control systems;
- Compact structure and versatile design, easy to install and layout on the pipes or side walls of beer fermentation tanks, reducing installation difficulty and time.



**02 Flush Diaphragm Pressure Transmitter SUP-P3000 with Automatic Temperature Compensation**  
Meets fermentation tank pressure measurement requirements

- High precision of 0.075% ensures reliable data output;
- Multiple output options for flexible system integration;
- Automatic temperature compensation ensures measurement accuracy;
- Wide operating temperature range, suitable for fermentation environments;
- High overload resistance for enhanced equipment safety;
- Excellent long-term stability reduces maintenance costs.



**03 Fast-Response RTD Temperature Sensor SUP- WRNK**  
Wide temperature range measurement, covering the entire fermentation process

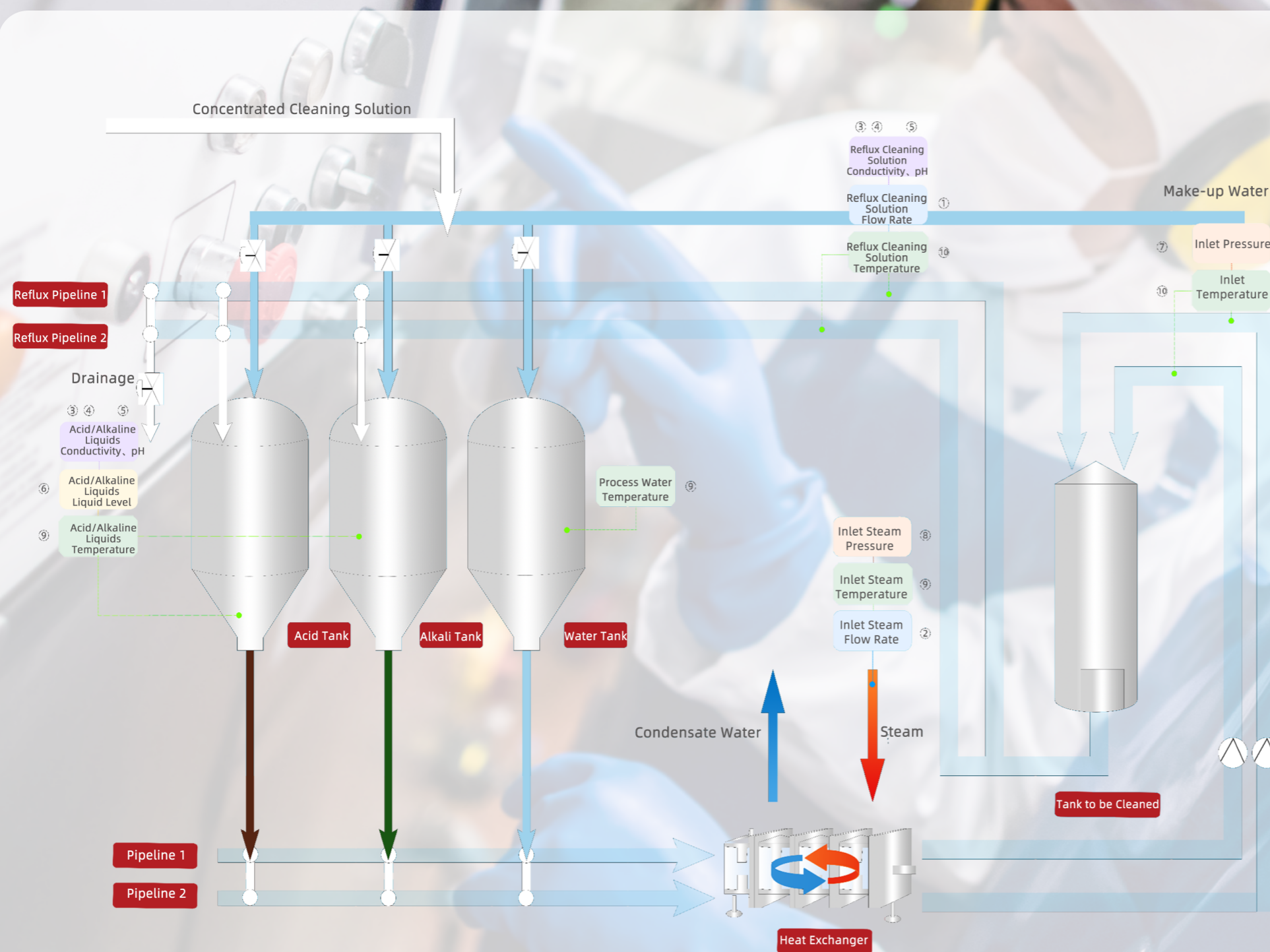
- Fast response temperature measurement, meeting real-time demands;
- Condensation-resistant design, suitable for harsh environments;
- High-precision temperature measurement, ensuring accurate data;
- Pt100 sensing element, stable and reliable.



**04 FCC300 Series Coriolis Mass Flowmeter (Straight-Tube Type)**  
Easily handles flow measurement conditions in beer production

- High-density measurement accuracy, suitable for measuring wort flow at different concentrations and temperatures;
- Easy installation with no requirement for upstream or downstream straight pipe sections;
- Reliable operation with low maintenance rate, reducing downtime and maintenance costs;
- Multiple output options available for seamless integration into control systems;
- Straight-tube design eliminates liquid retention, ensuring hygienic processing.

# Product Recommendations for CIP Process



## A Flow Measurement

Application Conditions

Reflux pipeline

Measured Medium

Cleaning Liquid

Recommended Product

Electromagnetic flow meter LDG-SUP

Application Conditions

Steam inlet pipeline of heat exchanger

Measured Medium

Steam

Recommended Product

Vortex flow meter SUP-LUGB-C

## D Pressure Measurement

Application Conditions

Steam inlet pipe of heat exchanger

Measured Medium

Steam

Recommended Product

Flat membrane pressure transmitter P350

Application Conditions

Connecting pipeline for cleaning tank

Measured Medium

Cleaning liquid

Recommended Product

Flat membrane pressure transmitter SUP-P3000

## B Liquid Analysis Measurement

Application Conditions

Reflux pipeline, acid/alkali tanks

Measured Medium

Conductivity of cleaning solution, acid/alkali liquids

Recommended Product

Inductive conductivity electrode ADE3500

Stainless steel conductivity electrode

TDS-7001

Used with MDC series universal transmitter

## E Temperature Measurement

Application Conditions

Connecting pipeline for cleaning tank, return pipeline

Measured Medium

Cleaning liquid

Recommended Product

Integrated temperature transmitter P202

Application Conditions

Reflux pipeline, acid/alkali tanks

Measured Medium

pH of cleaning solution, acid/alkali liquids

Recommended Product

High-Temperature glass electrode PH-5015

Used with MDC series universal transmitter

Application Conditions

Steam inlet pipe of heat exchanger

Measured Medium

Steam

Recommended Product

Armored thermoresistor SUP-WRNC

Application Conditions

Acid/Alkali/Water tank

Measured Medium

Acid/Alkaline liquid / process water temperature

Recommended Product

Armored thermoresistor SUP-WRNC

## C Level Measurement

Application Conditions

Acid/Alkali tanks

Measured Medium

Level of acid/alkali liquids

Recommended Product

80GHz radar level meter WSR550



**01 High-Performance Electromagnetic Flowmeter LDG-SUP**

Flow measurement of cleaning liquid in CIP return pipeline

- High flow measurement accuracy up to 0.3% FS;
- Suitable for low conductivity applications, such as CIP cleaning processes;
- Easy installation with built-in grounding electrodes, no need for external grounding;
- Intelligent diagnostics with empty pipe detection for simplified maintenance.



**02 Wide Measurement Range Vortex Flowmeter SUP-LUGB-C**

Ideal for continuous monitoring of steam flow in hot steam pipelines

- No moving parts in the main body, offering long-term stability and reducing downtime caused by component wear or failure;
- Gas measurement accuracy of  $\pm 1.5\%$ , ensuring precise process control and product quality in CIP cleaning procedures;
- Flexible installation options, can be mounted horizontally, vertically, or at various angles, making it adaptable for installation and use in complex environments such as beer fermentation workshops;
- Integrated pressure and temperature compensation, ensuring high-precision steam measurement.



**03 Durable Inductive Conductivity Electrode ADE3500**

Concentration measurement in CIP return and buffer tanks

- Conductivity measurement range:  $500\mu\text{S}/\text{cm}$  to  $2000\text{mS}/\text{cm}$ , suitable for various cleaning liquids;
- Measurement accuracy:  $\pm 1.0\%$  FS ( $2\sim 2000\text{mS}/\text{cm}$ ), ensuring accurate data;
- Digital RS485 output provides stable communication, convenient for remote monitoring and data collection;
- Modbus protocol support for strong compatibility, easily integrated into existing systems;
- Micro-packaging technology, compact structure, easy installation and maintenance;
- Corrosion-resistant probe, suitable for a variety of acidic and alkaline solutions;
- IP68 protection rating, waterproof and dustproof, ideal for harsh cleaning environments.



**07 Compact Pressure Transmitter (Hesemann Model) P350**

Ensure safe equipment operation and timely address potential hazards

- IP68 protection rating with all-stainless steel construction, strong corrosion resistance, and durability, perfectly suited for acid-base cleaning and long-term operational needs in production environments;
- Equipped with a mini amplifier, supporting various signal outputs such as voltage, current, and RS485, meeting the needs of different control systems;
- Compact design with versatile options, allowing flexible selection based on actual pipeline layout and installation requirements.



**08 Flush Diaphragm Pressure Transmitter SUP-P3000 with Automatic Temperature Compensation**

Real-time monitoring of acid/base tank pressure

- High precision of 0.075% ensures reliable data output;
- Multiple output options for flexible system integration;
- Automatic temperature compensation ensures measurement accuracy;
- Wide operating temperature range suited for food production environments;
- High overload resistance for enhanced equipment safety;
- Excellent long-term stability reduces maintenance costs.



**09 Fast-Response RTD Temperature Sensor SUP- WRNK**

Suitable for steam temperature in steam pipelines and tank temperature monitoring

- Quick response for timely and accurate temperature measurements;
- Integrated design for easy installation and maintenance;
- Pt100 sensor for stable and reliable temperature measurement.



**04 Stainless Steel Conductivity Electrode TDS-7001 for Low Conductivity Measurement**

Reliable conductivity measurement in raw milk reception process

- High pressure tolerance: Pressure  $\leq 7\text{bar}$ , suitable for various operating conditions;
- Process connection: tri-clamp 1", 1 1/2" clamp connection, easy to install;
- Hygienic design: prevents contamination, ensuring food safety;
- Robust and durable: stable mechanical structure with long service life.



**05 High-Temperature and Corrosive Medium Resistant Glass Electrode PH-5015**

pH measurement of acid-alkaline cleaning liquids to ensure cleaning effectiveness

- High-temperature tolerance up to  $130^\circ\text{C}$ , suitable for boiling environments;
- Easy installation with no requirement for upstream or downstream straight pipe sections;
- Double liquid junction structure for more stable measurements;
- Lead-free glass material, meeting hygiene requirements;
- Wide measurement range, covering 0~14 pH;
- NTC/PT temperature compensation, suitable for temperature fluctuations;
- Ag/AgCl reference, improving measurement accuracy;
- Ceramic salt bridge, providing single-point stability and reliability.



**06 80GHz Radar Level Transmitter with Versatile Communication Interfaces, Model WSR550**

Achieve precise control of cleaning liquids and avoid unnecessary waste

- 80GHz high-frequency radar technology delivers highly accurate tank level measurements, minimizing errors and enhancing data precision;
- Millimeter-wave radar with measurement accuracy up to  $\pm 1\text{mm}$ ;
- Minimum 32mm lens antenna design, enabling stable operation in complex environments;
- Supports remote debugging and upgrades, with Bluetooth debugging via mobile phone, allowing field personnel to perform device maintenance anytime, anywhere, reducing maintenance costs.



**10 Versatile and Convenient Integrated Temperature Transmitter P202**

Temperature measurement in CIP return pipelines for cleaning liquids

- Shock-resistant and RF interference-resistant, ensuring stable operation in the vibration and electromagnetic interference environments typical of CIP processes, ensuring accurate and reliable temperature measurements;
- Wide range of measurement, meeting the temperature measurement needs of various stages in cleaning processes;
- Supports multiple output signal options, such as voltage and current, for seamless integration with different control systems.

**Data connected to the cloud  
Information at your fingertips**

Supmea's Instrument Cloud is an intelligent instrument platform independently developed by Supmea, leveraging multiple technologies such as the Internet of Things, big data, and cloud computing. Through cloud-based instrument integration and data visualization, it enables real-time operation and maintenance monitoring of instrument devices, providing anomaly alerts. Additionally, by recording and processing data, it helps enterprises reduce costs and increase efficiency.



Works with the MDC series universal transmitters for stable operation.

**Supmea Automation Co.,Ltd.**

Web: [www.supmea.com](http://www.supmea.com)

Phone: +8615868103947

Email: [info@supmea.com](mailto:info@supmea.com)

Address: 5th Floor, Building 4, Singapore Science and Technology Park, Hangzhou