

# Supmea



## Product Overview

Committed to Process Automation Solutions

# DIRECTORY

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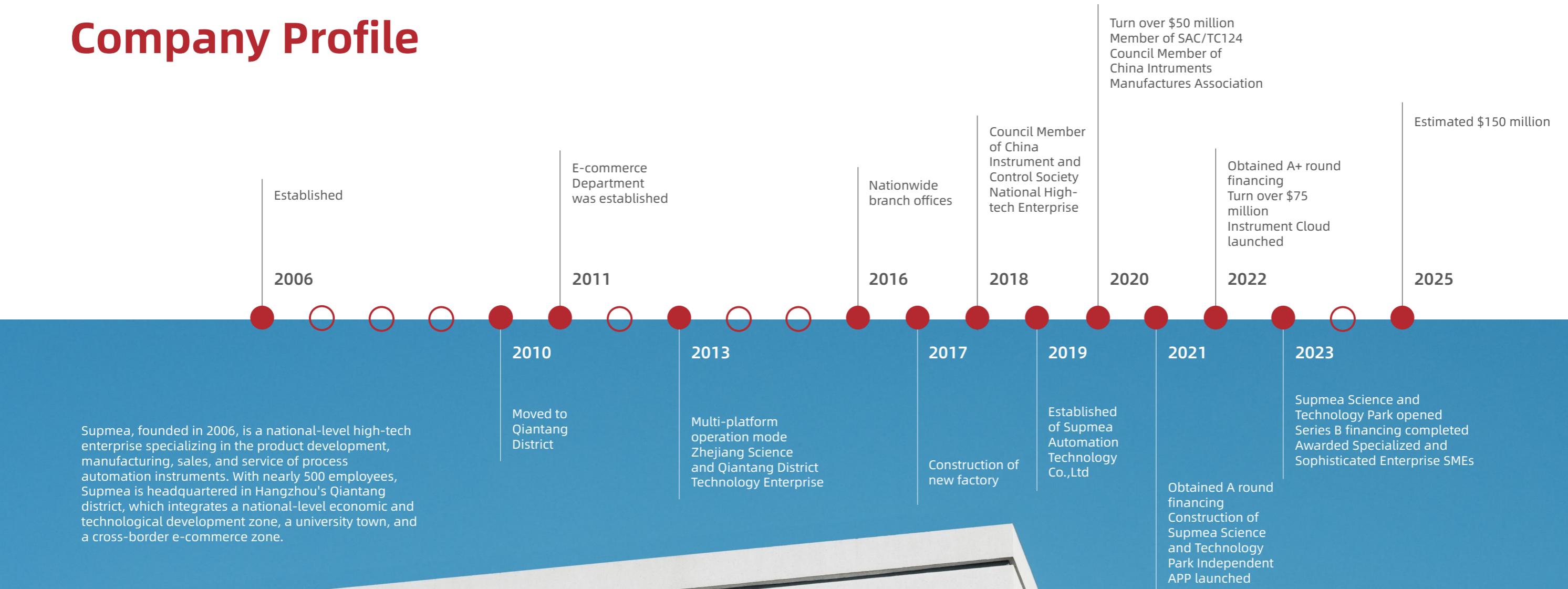
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# Company Profile

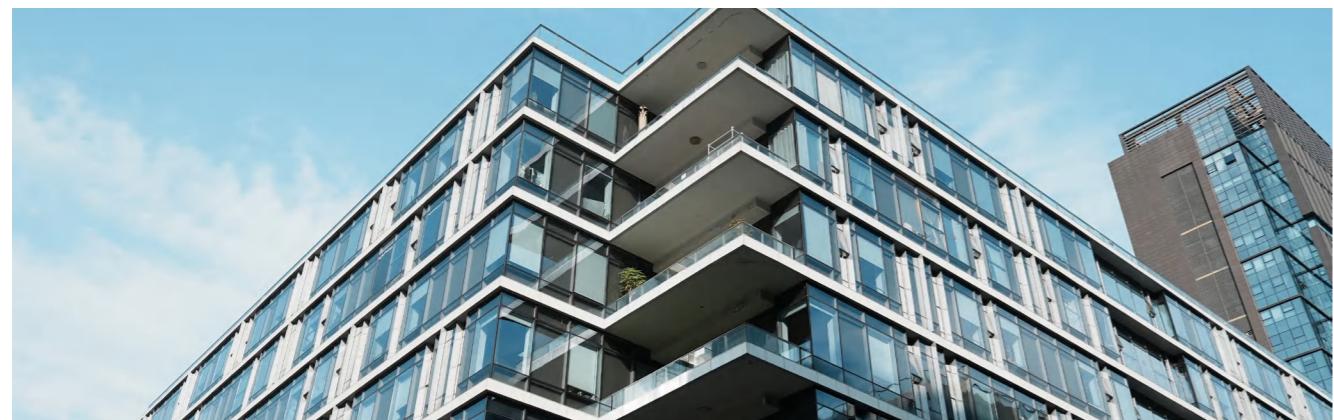


**Supmea 美仪**

Supmea Science and Technology Park in Jiaxing, Zhejiang, is equipped with an advanced electromagnetic flowmeter calibration system, a 1500m<sup>2</sup> laboratory, and two world-class SMT production lines. Supmea's product range covers temperature, pressure, flow, level, and analysis for process automation instruments, widely applied in major industrial sectors such as water and wastewater treatment, energy and power, chemical industry, life sciences, and food and beverages.

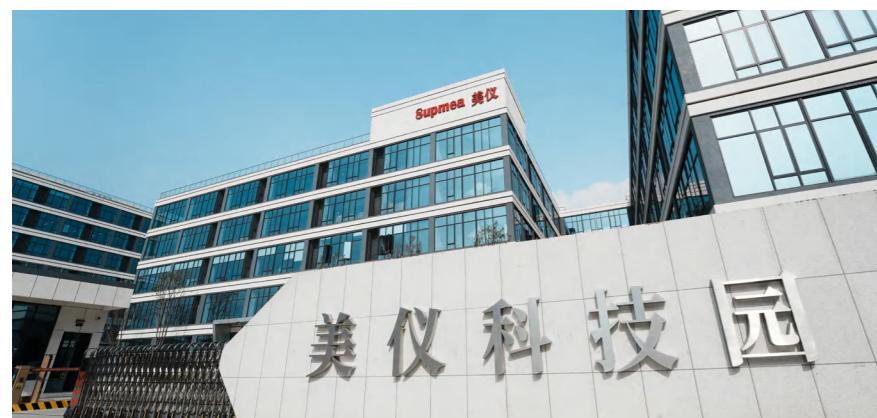
The company has established 38 domestic offices and overseas branches and set up a subsidiary, overseas warehouses and agencies, serving over 700,000 corporate customers in 139 countries and regions.

## Headquarters



Nerve center

## Science and Technology Park

46,000m<sup>2</sup> modern factory

Industry-leading flowmeter calibration system

1500m<sup>2</sup> professional laboratory

Two world-class SMT patch lines



Five major production lines: flow, liquid analysis, pressure, level and temperature

## Corporate honor



National High-Tech Enterprise

National Measurement, Control and Automation Standardization Committee TC124 committee member unit

Specialized and Sophisticated Enterprise

ISO9001 Quality Management System Certification

## Explosion-proof certificate



Intelligent pressure transmitter (Exd)

Radar level meter (Exd)

Vortex flowmeter (Exi)

Temperature sensor (Exd)

## Patent certificate



pH controller invention patent

Fully automatic calibration device for pH controller

A kind of resistivity sampling circuit for aqueous solution

An ultrasonic liquid level detection method

Digital pressure gauge

pH controller

Isolated conversion circuit

## Trademark



China

Russia

Philippines

South Korea

Malaysia

USA

Thailand

Singapore

Vietnam

## CE certificate



Electromagnetic flowmeter

Radar level meter

Vortex flowmeter

Conductivity meter

Temperature change module

Isolator

pH controller

# Flow

- Electromagnetic Flowmeter
- Turbine Flowmeter
- Vortex Flowmeter
- Gas Mass Flowmeter
- Ultrasonic Flowmeter
- Variable Area Flowmeter
- Coriolis Mass Flow Meter



# Flow

Flowmeter performance parameter				
				
Performance parameters	Electromagnetic flowmeter	Electromagnetic flowmeter	Remote type electromagnetic flowmeter	Stainless steel body electromagnetic flowmeter
Model	FMC240	LDG-SUP	LDG-SUP	LDG-SUP
Medium	Conductive liquid (> 30 $\mu$ s/cm)	Conductive liquid (> 50 $\mu$ s/cm)	Conductive liquid (> 50 $\mu$ s/cm)	Conductive liquid (> 50 $\mu$ s/cm)
Nominal diameter	DN10~DN1000	DN15~DN1000	DN10~DN2000	DN10~DN250
Nominal pressure	0.6~1.6MPa	0.6~4.0MPa	0.6~1.6MPa (Ultra high pressure can be customized)	0.6~4.0MPa
Accuracy	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%, \pm 1\%$
Range ratio	1:20	1:10	1:10	1:20
Body material	Carbon steel	Carbon steel	Carbon steel	Stainless steel
Operating temperature	Medium temperature: -10°C ~+150°C Ambient temperature: -20°C ~+60°C	Medium temperature: -10°C ~+120°C Ambient temperature: -25°C ~+60°C	Medium temperature: -10°C ~+150°C Ambient temperature: -20°C ~+60°C	Medium temperature: -20°C ~+150°C Ambient temperature: -20°C ~+60°C
Signal output	4~20mA/Pulse/ frequency	4~20mA/Pulse/ frequency	4~20mA/Pulse/ frequency	4~20mA/Pulse
Communication	RS485	RS485 / HART	RS485 / HART	RS485 / HART
Electrical connection	M20×1.5 Thread	M20×1.5 Thread	M20×1.5 Thread	M20×1.5 Thread
Ingress protection	IP65	IP65	IP68	IP65

Flow meter performance parameter				
				
Liquid turbine flow meter	LWGY-SUP	Vortex flowmeter	Thermal gas mass flowmeter	Wall-mounted ultrasonic flowmeter
Liquid	LUGB-SUP	SUP-MF	SUP-1158S	LZ-SUP
DN4-DN200	DN15~DN300	DN65~DN1000	DN32~DN1200	DN15~DN200
0.6~4.0MPa	1.0~2.5MPa	$\leq 2.5\text{MPa}$	-	4.0MPa / 1.6MPa
$\pm 0.5\%, \pm 1\%$	$\pm 1.5\%$	$\pm 2.5\%$	$\pm 1.0\%$	$\pm 1.5\% / \pm 1\%$
1:10	1:10	1:100	Customizable	10:1 / 20:1
Stainless steel	Stainless steel	Stainless steel	PVC/FRP	304 SS, 316(L) SS
Medium temperature: -20°C ~+120°C Ambient temperature: -40°C ~+300°C	Medium temperature: -20°C ~+120°C Ambient temperature: -20°C ~+60°C	Medium temperature: -40°C ~+300°C Ambient temperature: -20°C ~+45°C	Medium temperature: -30°C ~+80°C	Local type -40°C ~120°C Remote type -30°C ~60°C
4~20mA / pulse	4~20mA / pulse	4~20mA / pulse	4~20mA / pulse	4~20mA(Analog)
RS485	RS485 / HART	RS485	RS485	4~20mA / RS485 / MODBUS
M20×1.5 Thread	M20×1.5 Thread	M20×1.5 Thread	-	M20×1.5 Thread
IP65	IP65	IP65	IP65	IP65

## LDG-SUP Electromagnetic Flowmeter

### INTRODUCTION

LDG-SUP electromagnetic flow meter bases on the mature Faraday's law of electromagnetic induction. It is mainly used for volume measurement of conductive liquid flow in the closed pipeline. Including strong corrosive liquid, such as acid, alkali, salt, etc. The product is widely used in petroleum, chemical, metallurgical, textile, food, pharmaceutical, paper and other industries, as well as environmental protection, municipal administration, water conservancy construction and other fields.

### FEATURES

- ① Small pressure loss and high Accuracy
- ② Strong adaptability and compatibility of various pipes
- ③ Stable and reliable, strong anti-interference
- ④ Good linearity of measure, high repeatability
- ⑤ Wide measuring range, complete series
- ⑥ No mechanical inertia, sensitive reaction parameters



### Parameter

#### LDG-SUP Electromagnetic flowmeter

Accuracy	±0.5%	Nominal pressure	0.6~1.6MPa
Power supply	100~240VAC 50/60Hz 22VDC~26VDC	Range ratio	1:10
Operating temperature	Sensor: -10~120°C converter: -10~55°C	Medium	>50us/cm
Flow direction	Bi-directional	Output signal	4~20mA (load resistance:0~750Ω), pulse / frequency
Communication	RS485, HART	Installation	Flange/clamp

## FMC240 Electromagnetic Flowmeter

### INTRODUCTION

FMC240 electromagnetic flowmeter is based on the working principle of Faraday's law of electromagnetic induction and is suitable for flow measurement in various working conditions. Both compact and remotetype can be operated remotely by infrared using a universal monitor, reducing operating costs. In the absence of good grounding conditions, the flow rate value remains stable, and it has a stronger lightning protection function.

### FEATURES

- ① Compatible operation interface can save the user debugging and learning time
- ② IP65 ensures the stable operation of the machine and the safety of the user in harsh environments
- ③ Self-diagnosis technology quickly help users to analyze and solve problems
- ④ Special compact circuit design, adjustable excitation parameters and other product characteristics to ensure to meet the requirements of different working conditions



### Parameter

#### FMC240 Electromagnetic flowmeter

Function	Real-time measurement of instantaneous flow, flow rate, mass flow (when density is constant, and flow accumulation)		
Nominal pressure	DN10 to DN250, PN <1.6MPa, DN300~DN1000, PN <1.0MPa;		
Lining material	Neoprene (CR), polyurethane rubber (UR), polytetrafluoroethylene PTFE (F4), polyperfluoroethylene propylene FEP (F46), Teflon (PFA)		
Electrode	316L SS, harbin alloy (HB and HC), titanium (Ti), tantalum (Ta), platinum and iridium allo		
Medium temperature	-10°C ~+150°C	Ambient temperature	-20°C ~+60°C

## LWGY-SUP Liquid Turbine Flowmeter

### INTRODUCTION

LWGY-SUP series liquid turbine flowmeter is velocity flow meter which has the advantages of high accuracy, good repeatability, simple structure, small pressure loss, and convenient maintenance. It is used to measure the volume flow rate of low-viscosity liquids in closed pipelines. It is widely used in chemical industry, metallurgy, water supply, papermaking and other industries.

### FEATURES

- 1 Upgrade SMART transmitter, convenient and reliable, 11 units switchable
- 2 Imported measurement chip, stable quality
- 3 Compatible with various medium, stable and efficient
- 4 Precision machining, shock resistance
- 5 Flow control accurate



Clamp      Thread



### Parameter

#### LWGY-SUP Liquid turbine flowmeter

Accuracy	0.5%FS, 1%FS	Nominal diameter	DN4~DN200
Dielectric viscosity	100~240VAC 50/60Hz 22VDC~26VDC	Range ratio	1:10
Atmospheric pressure	(86~106)KPa	Power supply	3.6V lithium battery, 12VDC, 24VDC
Medium temperature	(-20~+120)°C (Stainless steel pipe)	Environmental conditions	Ambient temperature: (-20~+60)°C, Relative humidity: 5%~90%
Operating temperature	<5×10~6 m <sup>2</sup> /s (>5×10~6 m <sup>2</sup> /s liquid, require solid liquid calibration)		

## LUGB-SUP Vortex Flowmeter

### INTRODUCTION

LUGB-SUP vortex flowmeter has no moving mechanical parts, so it has high reliability, less maintenance, and long-term stability of instrument parameters. The vortex flowmeter adopts piezoelectric stress sensor, which has high reliability and can work in the working temperature range of -20~+250°C. It has analog standard signal and digital signal output. It is easy to be used with computer and other digital systems. It is a relatively advanced and ideal measuring instrument.

### FEATURES

- 1 Compatible with many medium
- 2 Power supply optional
- 3 Display of parameters on the same screen
- 4 Integrated temperature and pressure compensation
- 5 Small-flow resection
- 6 Intelligent anti-interference



### Parameter

#### LUGB-SUP Vortex flowmeter

Accuracy	±1%R(conventional), ±1.5%F.S; Insertion: ±25%R, ±2.5%F.S		
Nominal pressure	Flange clamp (PN2.5MPa) flange connection (PN1.0~2.5MPa) depending on the caliber		
Nominal diameter	DN20~300 (Compact / Remote), DN300~1000 (Insert)	Ingress protection	IP65
Range ratio	1:10	Output signal	Square wave pulse: high level ≥ 6V, low level ≤ 1V; current: 4~20 mA
Output signal	Temperature-20°C ~55°C, relative humidity 5%~95% RH, atmospheric pressure 86~106KPa		

# FCC300 Coriolis Mass Flow Meter

## INTRODUCTION

The FCC300 is a high-precision, high-reliability instrument designed based on the Coriolis principle. It features integrated temperature compensation and anti-vibration algorithms, specifically engineered for accurate measurement of mass flow, density, and temperature of liquids and gases in industrial processes. The device adopts a fully welded, all-stainless steel sensor construction, supporting pipe sizes from DN15 to DN200, with a measurement accuracy of up to  $\pm 0.1\%$ . It is suitable for a wide range of demanding process conditions. With its low maintenance requirements, long service life, and intelligent functionality, the FCC600 enhances energy efficiency management and process automation, making it an ideal solution for precision measurement in process industries.

## FEATURES

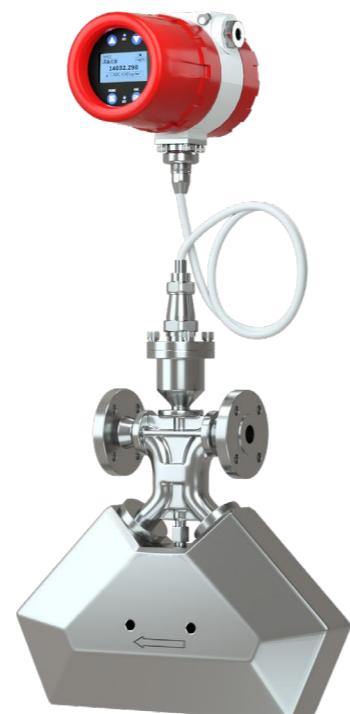
- 1 Direct measurement of fluid mass flow
- 2 High measurement accuracy (accuracy better than 0.1%)
- 3 Wide turndown ratio, typically 15:1 or 20:1 while maintaining stated accuracy
- 4 Broad application range - in addition to general fluid measurement, it is capable of handling challenging industrial media, such as high-viscosity fluids, slurries, and suspensions, which are difficult for conventional flow meters
- 5 In-line measurement of fluid density and temperature, enabling derived concentration measurement of solutes in solutions
- 6 Low installation requirements, with no need for long upstream or downstream straight pipe sections
- 7 No moving parts in the sensor body, ensuring high reliability, long-term stability, and easy maintenance due to its simple construction



U-Shaped Type



Straight-Tube Type



Triangular Type

## APPLICATIONS



### Energy and Petrochemical Industry

- ◆ Custody transfer measurement of petroleum and natural gas for truck/ship loading (CNG/LNG)
- ◆ High-pressure gas flow measurement
- ◆ High-temperature oil flow measurement (200-300°C)
- ◆ High-pressure flow measurement of drilling and cementing slurries

### Chemical and Pharmaceutical Industry

- ◆ Measurement of chemical raw materials and finished products
- ◆ Precision control in pharmaceutical production
- ◆ Micro-flow measurement for fine chemicals
- ◆ In-line concentration monitoring of solutions (e.g., lime slurry)

### Food Industry and Special Fluids

- ◆ Food-grade oil measurement
- ◆ High-viscosity fluid measurement (e.g., asphalt, heavy oil)
- ◆ Thermal insulation measurement of solidifying-prone materials
- ◆ Measurement of particle-laden fluids (e.g., cement slurry)

### Industrial Gases and Cryogenic Media

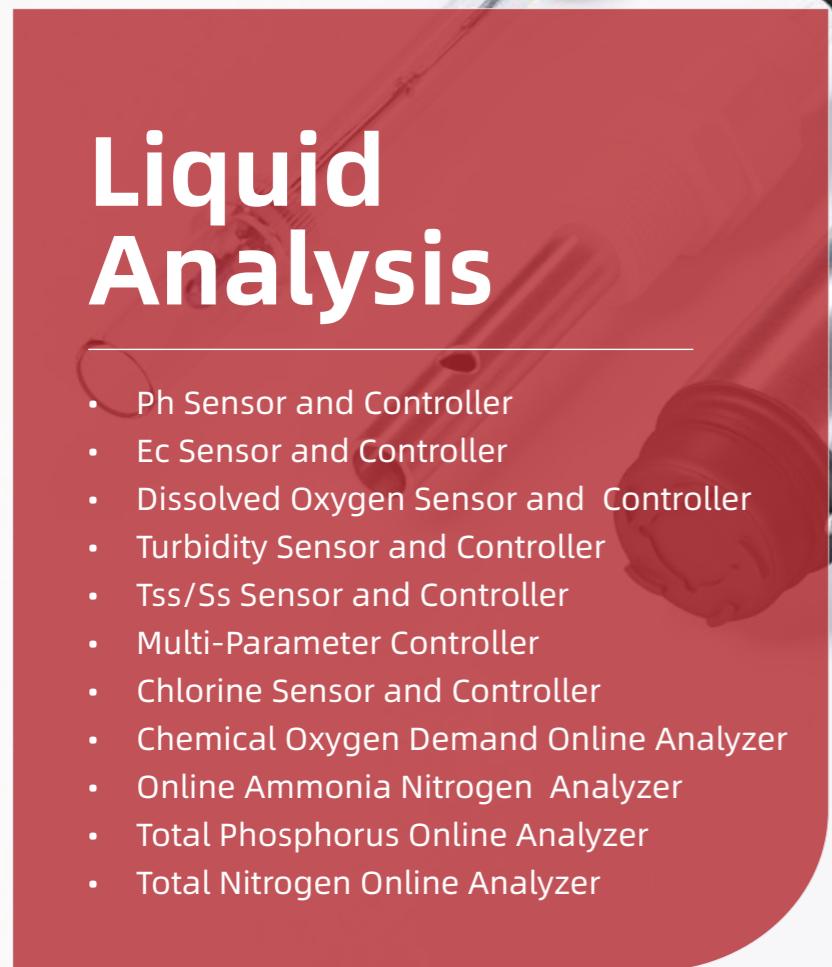
- ◆ Accurate metering of industrial gases
- ◆ Cryogenic media measurement (e.g., liquid nitrogen, liquid oxygen)
- ◆ High-pressure gas flow control

### Special Industrial Applications

- ◆ Flow monitoring under extreme conditions
- ◆ Multi-parameter measurement (flow + density)
- ◆ In-line measurement of special media
- ◆ Logistics and Custody Transfer
- ◆ Custody transfer and settlement for bulk fluid materials (oil, chemicals) during truck/ship loading
- ◆ Accurate filling and dispatching of bulk materials (e.g., asphalt, liquefied gases)

## Parameter

FCC300 Coriolis mass flow meter			
Measured Variables	Mass Flow, Density, Temperature	Nominal Diameter	Straight-Tube Type:DN8~DN80
Process Pressure	(0 ~ 4.0) MPa		U-Shaped Type:DN20~DN150
Protection Rating	IP67		Triangular Type:DN3~DN15
Accuracy	Flow:0.1 Class, 0.2 Class, 0.5 Class Density: $\pm 0.002\text{g}/\text{cm}^3$ Temperature: $\pm 1^\circ\text{C}$	Medium Temperature	Standard Type: (-50 ~ 200) °C, (-20 ~ 200) °C High-Temperature Type: (-50 ~ 350) °C Low-Temperature Type: (-200 ~ 200) °C



# Liquid Analysis

Controller performance parameter					Controller performance parameter				
Performance parameters	Universal controller	pH controller	pH controller	Conductivity controller	Performance parameters	Turbidity controller	Multi-parameter controller	Residual chlorine controller	
Model	SUP-DC2000	SUP-PH6.5	SUP-PH(CCEP)	SUP-TDS210-B	Model	SUP-PTU300	MDX500	SUP-TRC400	
Display	2.8-inch LCD display	2.8-inch LCD display	4.3-inch TFT display	2.8-inch LCD display	Weight	4.5kg	30kg	8kg	
Range	pH (0~14pH) ORP (-2000~+2000mV) Dissolved oxygen (0~20mg/L / 0~40mg/L) Saturation (0~200%) Conductivity (0~600mS/cm) Turbidity (0~4000NTU) SS/TSS (0~12000mg/L)	pH (0~14pH) ORP (-1000~+1000mV / -2000~+2000mV)	pH(-~16pH) ORP(-1999~1999mV)	0.01electrode (0.20~200.0 $\mu$ S/cm) 0.1electrode (2.00~2000 $\mu$ S/cm) 1.0electrode (0.02~20.0mS/cm) 10.0electrode (0.20~200.0mS/cm) Temperature (-10~130°C )	Ingress protection	IP54	IP54	IP43	
Relay output	One set of high and low limit alarms (3A/250VAC) , normally open contact relay			The relay load is 3A/250VAC	Range	Turbidity(0~1NTU / 0~20NTU / 0~100NTU / 0~4000NTU) Residual chlorine/Chlorine dioxide (0~5mg/L/0~20mg/L) Temperature(0~50°C ) PH /ORP(0~14pH,±2000mV) (optional) Conductivity(0~2000 $\mu$ S/cm) (optional) Dissolved oxygen(0~20mg/L) (optional)			Residual chlorine(0~5mg/L) Temperature(0.1~40.0°C )
Communication	RS-485 communication, MODBUS RTU				Accuracy	$\pm 2\%$ or $\pm 0.015$ NTU (Based on Formazin Primary Standard at 25°C)			
Transmission	Isolated 4~20mA output, the maximum loop is 750 $\Omega$ , $\pm 0.2\%$ F.S				Resolution	0.001NTU			
Operating temperature	(0~60)° C				Zero point drift	$\leq \pm 0.015$ NTU			
Power supply	(100~240)VAC; 24VDC(optional)	220VAC $\pm 10\%$ , 50Hz/60Hz	(100~240)VAC, 5WMax,50/60Hz	220VAC $\pm 10\%$ , 50Hz/60Hz; 24VDC $\pm 20\%$ Inputpower $\geq 6W$	Power supply	24VDC			
Overall dimension(mm)	100×100×150	100×100×150	144×144×115	100×100×150	Operating temperature	(4~50)°C / (-25~+50)°C (optional temperature control heating antifreeze module)			
Cutout dimension(mm)	92.5 <sup>±1</sup> ×92.5 <sup>±1</sup>	92.5 <sup>±1</sup> ×92.5 <sup>±1</sup>	138 <sup>±1</sup> ×138 <sup>±1</sup>	92.5 <sup>±1</sup> ×92.5 <sup>±1</sup>	Relative humidity	5~95%RH(No condensation)			

## SUP-PH (CCEP) pH Controller

### INTRODUCTION

SUP-PH (CCEP) is an intelligent online chemical analysis instrument, widely used in metallurgy, environmental protection, pharmaceutical, biochemical, food and water and other industries, the pH value or ORP value and temperature in the solution continuous monitoring. The monitoring data can be connected to the recorder by changing the output to realize remote monitoring and recording, and the RS485 interface through Modbus-RTU protocol and computer communication, so as to realize the computer to monitor and record the instrument.

### FEATURES

- ① 4.3-inch true-color LCD display, rich in content, view all data at a glance
- ② 3 level menu design, simplify the operation process, easier to get started, more convenient to operate
- ③ Historical data can be viewed through the record option, currently supports 100 sets of data storage
- ④ Can set the buzzer, LCD backlight switch function
- ⑤ Add the universal password function, English and Chinese menus can be switched
- ⑥ Can set the recording interval for the data, Range: 00:00:01~23:59:59



## SUP-PH6.5 pH Controller

### INTRODUCTION

pH / ORP meter is one of the intelligent online chemical analysis equipment, is a widely used in thermal power, chemical fertilizer, metallurgy, environmental protection, Pharmaceutical, biochemical, food and tap water solution pH value or ORP value and temperature of the continuous monitor.

### FEATURES

- ① Design of board card modularity, for convenience of assembly and configuration
- ② 2.4 inches 128\*64 lattice screen
- ③ Isolating transmitting output, with little interference
- ④ Can be pH / ORP measurement, temperature measurement, upper and lower limit control, transmission output, RS485 communication
- ⑤ Configurable manual and auto temperature offset function
- ⑥ Configurable upper/lower limit warning and delay



### Parameter

#### SUP-PH (CCEP) pH controller

Instrument caliber	pH(-2~16pH); ORP(-1999~+1999mV)	Accuracy	pH±0.02pH; ORP±1mV
Resolution	pH0.01pH; ORP 1mV	Stability	≤ 0.02pH/24h; ORP ≤ 3mV/24h
Temperature compensation	-10~130°C Manual / automatic (NTC10K / Pt1000)	Display	4.3 inch true-color LCD screen
Signal output	4~20mA isolated protection output, maximum loop resistance 750Ω	Alarm output	High and low limit alarm each group (245VAC / 5A) often open contact relay
Power supply	220VAC±10% 50Hz	Cutout dimension	138 <sup>+</sup> 1x138 <sup>+</sup> 1 mm

### Parameter

#### SUP-PH6.5 pH controller

Measuring range	pH: 0.00~14.00pH ORP: -1000mV~+1000mV/-2000mV~+2000mV (optical)		
Storage conditions	Temperature: -15°C ~65°C Relative humidity: 5%RH~95%RH (No condensation) Altitude: <2000m	Accuracy	pH: ±0.02pH, ORP: ±1mV
Temperature compensation	NTC10K: -10°C ~60°C Accuracy ±0.3°C ,60°C -130°C Accuracy ±2°C PT1000: Accuracy ±0.3°C , -10°C -130°C manual/automatic		
Power supply	220VAC±10%, 50Hz/60Hz		

## SUP-TDS210-B Conductivity Controller

### INTRODUCTION

Conductivity controller is widely used in thermal power, chemical fertilizer, metallurgy, environmental protection, pharmaceutical, biochemical, food and tap water industries, etc. The controller mainly continuously monitors the conductivity/total dissolved solids/resistivity and temperature in the solution.

### FEATURES

- ① (4~20) mA isolated transmission output, which is less affected by interference
- ② RS485 communication (MODBUS-RTU protocol)
- ③ Isolating transmitting output, with little interference
- ④ Manual and auto temperature compensation
- ⑤ High/low alarm (relay)
- ⑥ Buzzer/LCD backlight switch



## SUP-PTU300 Turbidity Controller

### INTRODUCTION

SUP-PTU300 turbidity controller is for online monitoring of drinking water quality, widely used in on-line monitoring of turbidity in tap water, factory water, secondary water supply, membrane filtration water, swimming pools, surface water, etc. It has the characteristics of ultra-low turbidity detection limit, long-term maintenance-free and high accuracy measuring equipment, water-saving work and digital output.

### FEATURES

- ① Suitable for low turbidity conditions
- ② Innovative integrated body, sophisticated structure design
- ③ Wall-mounted installation, easy and convenient
- ④ Third-generation laser light source technology, without external measurement probe
- ⑤ Less manual maintenance, fast detection



### Parameter

#### SUP-TDS210-B Conductivity controller

Accuracy	±2%FS	Alarm	2 relay, AC250V/ 3A
Display	2.8 inch LCD	Overall dimension	100mm×100mm×150mm
Temperature compensation	NTC10K/Pt1000	Cutout dimension	92.5 <sup>±1</sup> mm×92.5 <sup>±1</sup> mm
Power supply	AC: 220VAC±10% 50Hz/60Hz, DC: 24VDC±20% Input power ≥ 6W		
Measuring range	0.01 electrode: (0~20.00)µS/cm or (0.05~20.00)MΩ*cm; 0.1 electrode: (0.20~200.0)µS/cm 1.0 electrode: (2.00~2000)µS/cm, maximum 20000uS/cm; 10.0 electrode: (0.02~20.00)mS/cm Temperature range: (-10~130)°C (It is not recommended to use in 1µS/cm pure water.)		

### Parameter

#### SUP-PTU300 Turbidity controller

Ingress protection	IP54	Sensor cable length	2m
Measuring range	0-1NTU / 0-20NTU / 0-100NTU (optional)	Accuracy	±2% or ±0.015 NTU (Based on Formazin primary standard solution at 25° C)
Zero point drift	≤ ±0.015NTU	Resolution ratio	0.001NTU
Water inlet and outlet	Water inlet 6mm hose Outlet and sewage outlet 10mm hose	Inlet flow	50mL/min ~ 300mL/min

# MDX500 Multi-parameter Controller

## INTRODUCTION

MDX500 Multi-parameter controller is a new generation drinking water quality monitoring equipment independently developed and manufactured by our company. This equipment can be widely used in urban or village waterworks, tap water pipeline network, tap water secondary water supply, user terminal, indoor swimming pool, large water purification equipment and direct drinking water and other water quality online monitoring.

## FEATURES

- 1 Simultaneously monitoring multiple parameters such as turbidity, pH, temperature, etc.
- 2 High-precision measurement, long-term stable and accurate measurement on the order of 0.001~0.1NTU and 0.1~1NTU
- 3 With a self-protection device, can effectively avoid equipment damage caused by accidents and lightning strikes
- 4 Low operation and maintenance costs, support remote control functions such as automatic sewage discharge and remote adjustment
- 5 Strong environmental adaptability, optional temperature control heating antifreeze module, can run outdoors all year round in cold regions

## APPLICATIONS



## Parameter

MDX500 Multi-parameter controller							
parameter	Turbidity	Chlorine/ Chlorine Dioxide	pH /ORP (optional)	Temperature	Conductivity (optional)	Dissolved oxygen (optional)	
Measuring range	0~1NTU 0~20NTU 0~100NTU 0~4000NTU	0~5mg/L 0~20mg/L	0~14pH ±2000mV (ORP)	0~50°C	0~2000uS/cm	0~20mg/L	
Resolution	0~1NTU /0~20NTU /0~100NTU: 0.001NTU 0~4000NTU: 0.01NTU	0.01mg/L	0.01pH ±1mV (ORP)	0.1°C	/	/	
Lower detection limit	0.02NTU/ 0.1NTU (0~4000NTU)	0.05mg/L	/	/	/	/	
Lower detection limit	0.02NTU; 0.1NTU (0~4000NTU)	0.01mg/L	/	/	/	/	
Zero point drift	≤ 1.5%	/	/	/	/	/	
Indication stability	≤ 1.5%	/	/	/	/	/	
Accuracy	2% or ±0.02NTU 2% or 0.1NTU (0~4000NTU)	±0.05mg/L or ±5% (DPD comparison error ±10%)	±0.1pH, ±20mV (ORP) or ±2%	±0.5°C	±1.5%FS	±0.3mg/L	
Repeatability	≤ 3%	/	±0.1pH, ±10mv (ORP)	≤ 0.5°C	≤ 0.5%FS	≤ ±1.5%	
Response time	T ≤ 120s Measured value 0~90% of turbidity value	≤ 120s	≤ 60s	≤ 25s	≤ 30s	≤ 30s	
Recommended maintenance period	3~12 months (depending on the water quality on site)	1~3 months or weekly calibration 3~6 months to replace consumables	1~3 months	12 months	3~6 months	1~3 months	

## Selection parameters

★ Indicates that the model has this parameter

	M1	M2	M3	M4	M5	M6
Turbidity	★	★	★	★	★	★
Residual chlorine	★	★	★	★	★	★
pH	★	★	★	★	★	★
Temperature					★	★
Conductivity				★	★	
Dissolved oxygen						★
Material	Plastic case	Stainless steel				

# Liquid Analysis

Sensor performance parameter					
					
Performance parameters	pH sensor	pH sensor	pH sensor	pH sensor	pH sensor
Model	SUP-PH-5013A	SUP-PH-5015	SUP-PH-5018	SUP-PH-5019	SUP-PH-5022
Measuring range	0~14pH	0~14pH	0~14pH	0~14pH	0~14pH
(ORP) Zero electric potential (pH、TDS) Temperature compensation	NTC10K PT100 PT1000	NTC10K PT100 PT1000	NTC10K PT100 PT1000	10KΩ 2.252KΩ Pt100 Pt1000	Optional
Temperature range	0~80°C	0~130°C	0~100°C	0~80°C	0~135°C
Pressure resistance	≤ 0.3MPa	≤ 0.3MPa	≤ 0.3MPa	≤ 0.3MPa	≤ 1.3MPa
Thread	3/4NPT	PG13.5mm	PG13.5mm	3/4NPT	PG13.5mm
Body material	PTFE	Glass	Glass	ABS	Glass
Application	Heavy polluted water, strong acid and alkali working conditions	Mining and smelting, pulp and paper, wastewater treatment	Food and beverage, paper-making, minning and smelting	Waste water treatment and field sincluding, mining and smelting, emicalindustry	Industrial and public water, general water, wastewater processes
Cable length	5m standard (customizable)	5m standard (customizable)	5m standard (customizable)	5m standard (customizable)	5m standard (customizable)

# Liquid Analysis

## Digital sensor performance parameter

Performance parameters	Digital pH sensor	Digital pH sensor	Digital EC sensor	Digital EC sensor
Model	SUP-PH-8001	SUP-ORP-8001	SUP-TDS-8001	SUP-TDS-8002
Measuring range	(0.00~14.00)pH	±1000.0mV	Conductivity (0~9999)uS/cm, (10.00~70.00)mS/cm TDS(0~9999)ppm Salinity(0~40.00)ppt	(0~500)mS/cm
Temperature range	0~60°C	0~60°C	0~60°C	0~60°C
Accuracy	0.02pH / 0.5°C	0.5°C / 0.2mV	±2.5%	1.5%FS

## Digital sensor performance parameter

Performance parameters	Optical DO sensor	Optical DO sensor	SS/TSS sensor	Turbidity sensor
Model	SUP-DO-7018	SUP-DO-7019	SUP-PSS-9011	SUP-PTU-8011
Measuring range	Dissolved oxygen (0~20)mg/L or saturation(0~200%) Temperature(0~50)°C	Dissolved oxygen (0~20)mg/L or saturation(0~200%) Temperature(0~50)°C	(0.01~20000)mg/L (0.01~45000)mg/L (0.01~120000)mg/L	(0.01~4000)NTU
Temperature range	0~45°C (no freezing)	0~45°C (no freezing)	0~45°C (no freezing)	0~45°C (no freezing)
Accuracy	Dissolved oxygen: ±0.3 mg/L Temperature:±0.2°C	Dissolved oxygen: ±3% or ±0.3 mg/L Temperature:±0.5°C	Less than ±5% (depending on sludge homogeneity)	Less than ±2% of the measured value or ±0.1NTU

## INTRODUCTION

DC2000 universal controller is a general-purpose controller for water quality, suitable for use with various water quality series digital sensors of our company. It is used to monitor water quality parameters including pH, ORP, conductivity, dissolved oxygen, turbidity, sludge concentration and other water quality parameters. Through RS485 or current transmission output to the monitoring room for record keeping.

## FEATURES

- ① Universal, can match digital sensors such as pH/ORP/Conductivity/Dissolved oxygen/Turbidity/MLSS
- ② Isolated transmission output is adopted, which is less affected by interference
- ③ Using isolated RS485 communication technology



Back

Side



## APPLICATIONS



Water and wastewater treatment



Dosage monitoring



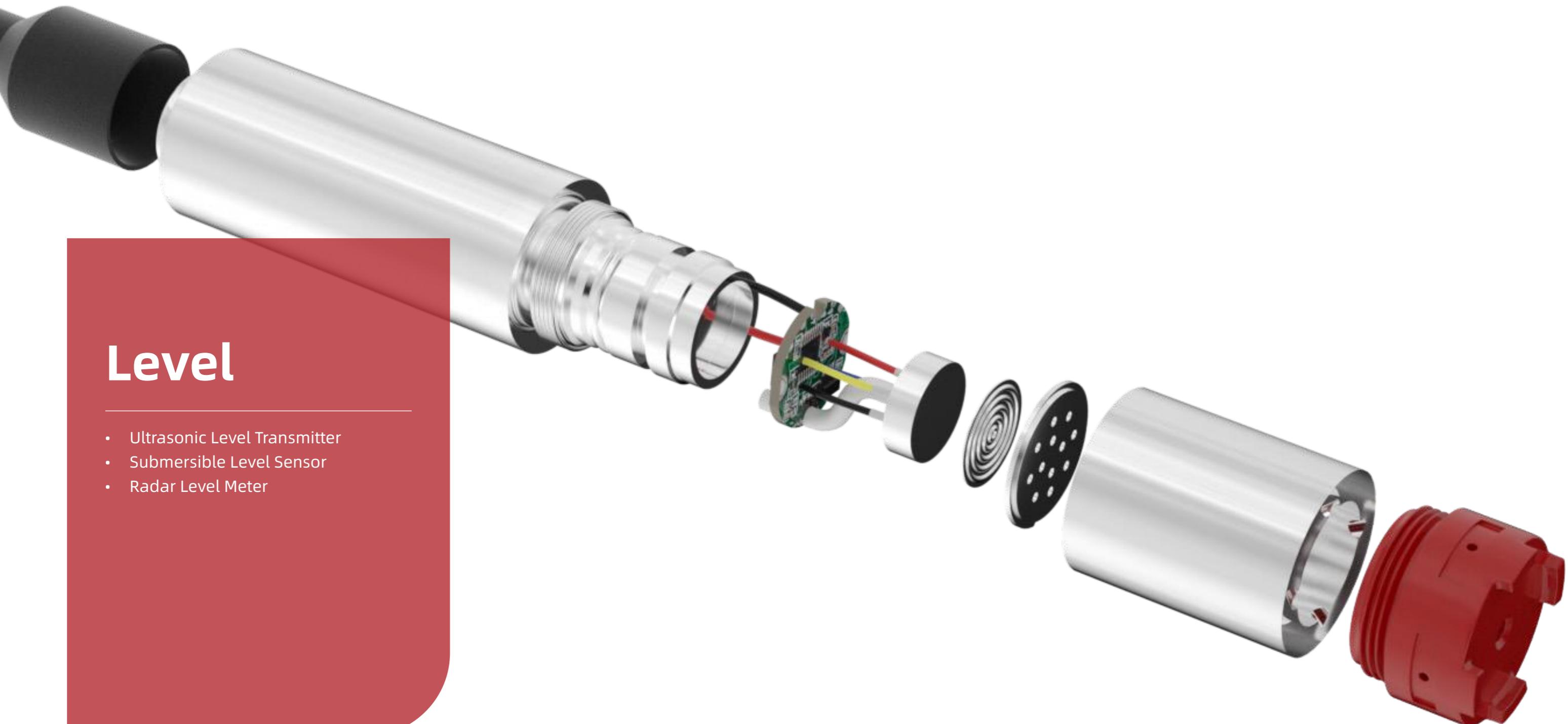
Process agricultural water



## Level

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- Ultrasonic Level Transmitter
- Submersible Level Sensor
- Radar Level Meter



# Level

Level transmitter performance parameter			
Performance parameters	Ultrasonic level transmitter	Ultrasonic level transmitter	Submersible level sensor
<b>Model</b>	SUP-MP	SUP-ULS-B	SUP-P261
<b>Range</b>	0~10m	0~15m	0~200m
<b>Accuracy</b>	±0.5%F.S	±0.5%F.S	±0.5%F.S
<b>Temperature drift</b>	±0.01F.S/°C	≤ 0.01F.S/°C	≤ 0.03F.S/°C
<b>Medium temperature</b>	-20~70°C	-20~80°C	-10~65°C
<b>Overload pressure</b>	200%F.S	200%F.S	150%F.S
<b>Power supply</b>	14~28VDC	100~240 VAC, 5W MAX, 50/60Hz 18~28 VDC	12~30VDC
<b>Environment temperature</b>	Converter-20~60°C Probe-20~80°C	Converter-20~60°C Probe-20~80°C	-20~65°C
<b>Ingress protection</b>	IP65	Converter:IP65, Sensor:IP68	Sensor:IP68 2088 Wiring:IP65
<b>Output signal</b>	4~20mA RL<500Ω (standard)	4~20mA Output precision: ±0.5%FS RL ≤ 500Ω	4~20mA, 1~5V, 0~10mA 0~20mA, 0~5V
<b>Relay output</b>	2 relays (5A/250VAC, 10A/240VDC)	2 relays	-
<b>Communication</b>	RS485(optional)	RS485	RS485(optional)
<b>Process connection</b>	Thread	Thread/flange	-

Level transmitter performance parameter			
Submersible level sensor	Submersible level sensor	Submersible level sensor	Submersible level sensor
SUP-P260	SUP-P260-M2	SUP-P260-M3	SUP-P260-M4
0~200m	0m~0.5m...100m	0m~ 0.5m...100m	Level: (0~100)m Temperature: (0~50)°C
±0.5%F.S	±0.5%F.S	±0.5%F.S	Temperature: ±1.5%FS Level: ±0.5%FS
≤ 0.03F.S/°C	±0.05F.S/°C	±0.05F.S/°C	±0.05F.S/°C
-10~65°C	-30~65°C	-20~ 65°C	-20~ 65°C
150%F.S	≤ 200%FS	≤ 2 full scale	-
12~30VDC	12~30VDC	12~30VDC	12~30VDC
-20~65°C	-30~65°C	-20~ 65°C	-20~ 65°C
Sensor: IP68 2088 Wiring: IP65	IP68	IP68	IP68
4~20mA, 1~5V, 0~5V	4~20mA	4~20mA	RS485
-	-	-	-
RS485(optional)	RS485(optional)	RS485(optional)	RS485(optional)
-	-	-	-

# Level

Level transmitter performance parameter			
Performance parameters	Radar level meter	Radar level meter	Radar level meter
<b>Model</b>	SUP-RD701	SUP-RD902	SUP-RD902T
<b>Range</b>	0~30m	0~30m	0~20m
<b>Accuracy</b>	±10mm	±5~15mm	±3mm
<b>Frequency</b>	500MHz~1.8GHz	26GHz	26GHz
<b>Medium temperature</b>	-40~250°C	-40~250°C	-40~130°C (standard type) -40~250°C (high temperature type)
<b>Power supply</b>	24VDC / Two-wire (24VDC/220VAC) / Four-wire	24VDC / Two-wire 6~24VDC / Four-wire	24VDC / Two-wire (24VDC/220VAC) / Four-wire
<b>Environment temperature</b>	-40~250°C	-20~80°C	-20~80°C
<b>Ingress protection</b>	IP67	IP67	IP67
<b>Output signal</b>	4~20mA	4~20mA/HART (2-wire/4-wire) RS485/Modbus	4~20mA/RS485/Modbus
<b>Communication</b>	RS485	RS485	RS485
<b>Material</b>	Aluminum / plastic	Aluminum/plastic/ stainless steel	Aluminum
<b>Process connection</b>	Thread / flange	Thread / flange	Thread / flange

Level transmitter performance parameter			
Performance parameters	Radar level meter	Radar level meter	Radar level meter
<b>Model</b>	SUP-RD903	SUP-RD908	SUP-WSR550
<b>Range</b>	0~70m	0~30m	1~60m
<b>Accuracy</b>	±15mm	±3mm	0.1%FS
<b>Frequency</b>	26GHz	26GHz	76~81GHz
<b>Medium temperature</b>	-40~250°C	-40~100°C	-40~150°C
<b>Power supply</b>	24VDC / Two-wire (24VDC/220VAC) / Four-wire	24VDC / Two-wire 6~24VDC / Four-wire	15~28VDC / 220VAC
<b>Environment temperature</b>	-20~80°C	-40~70°C	-40~85°C
<b>Ingress protection</b>	IP67	IP67 / IP65	IP67
<b>Output signal</b>	4~20mA/RS485/Modbus	4~20mA/RS485/Modbus	4~20mA
<b>Communication</b>	RS485	RS485	RS485
<b>Material</b>	Aluminum	Aluminum / plastic	-
<b>Process connection</b>	Universal flange	ThreadG1½" A/frame/flange	Thread / flange

## SUP-MP Ultrasonic Level Transmitter

### INTRODUCTION

Many level measuring instruments, is a universal one characterized by total digitalized and humanized design. It has perfect level monitoring, data transmission and man-machine communication. The master chip is imported technical m single chip with relevant application specific ICs such as digital temperature compensation. It is featured by strong anti-interference performance; free setting of upper and lower limits and online output regulation, on-site indication.

### FEATURES

- ① Intelligent adjustment response
- ② Intelligent double-line display
- ③ Intelligent adjustable range
- ④ Processing of special echo
- ⑤ All physical closed probe
- ⑥ Multipoint emission circuit



## SUP-P260 Submersible Level Transmitter

### INTRODUCTION

Piezoresistive effect of diffusion silicon to transform pressure into electrical signal. After temperature compensation and linear correction, it is converted to 4-20mA standard current signal and output. It is easy to install and measures accurately. It is widely used in liquid level measurement of various medium in petrochemical, metallurgy, power, pharmaceutical, water supply and drainage, environmental protection and other industries.

### FEATURES

- ① Easy installation, easy to use, strong interchangeability
- ② Corrosion resistance, power supply is not required
- ③ Good sealing performance, high reliability, safe use
- ④ The high quality sensor with high sensitivity and fast response
- ⑤ Wide measurement range, free from the limit of height of storage tank
- ⑥ The anti blocking design can realize the measurement of the level of paste medium



Removable probe and corrosion-resistant diaphragm

### Parameter

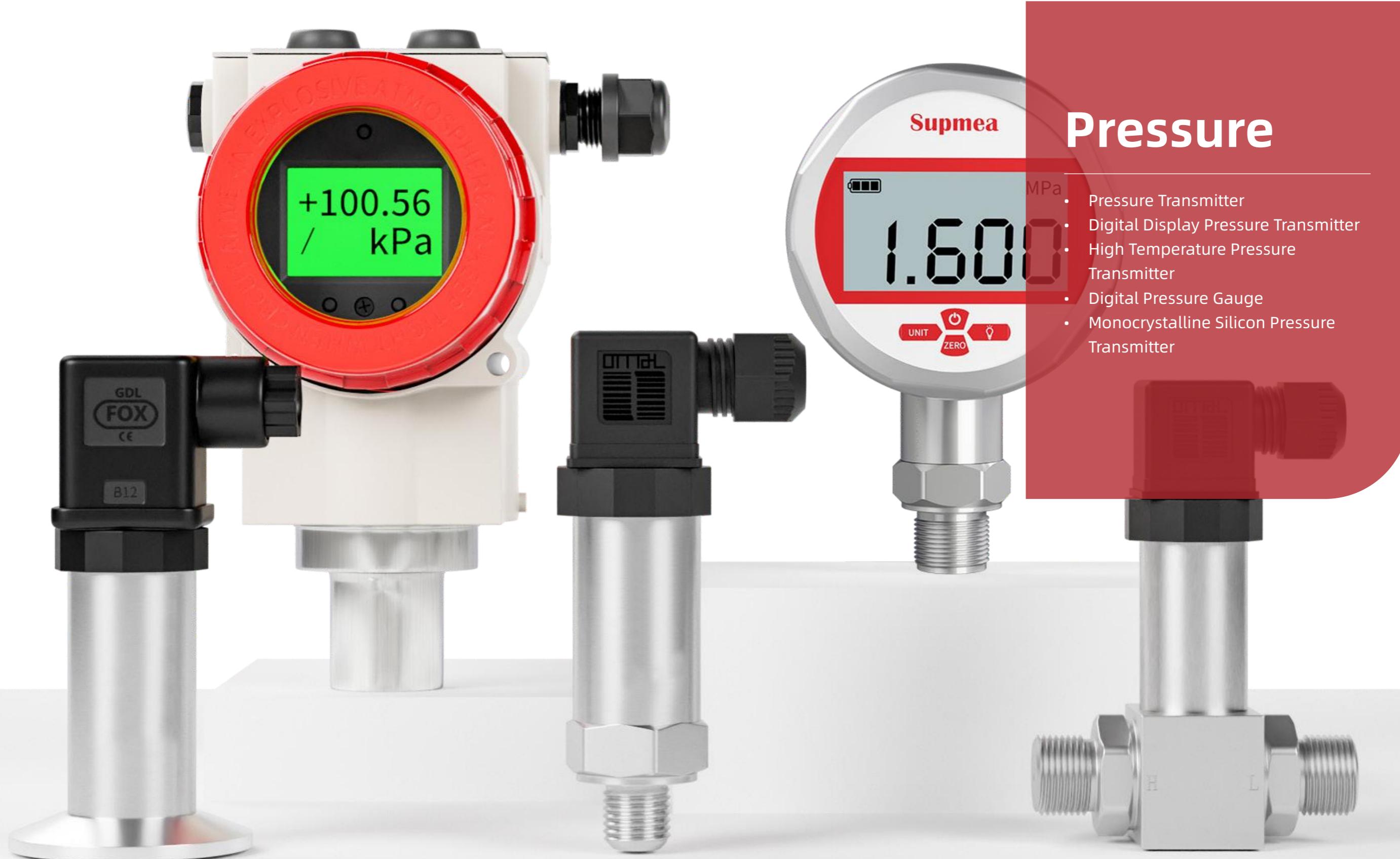
#### SUP-MP Ultrasonic level transmitter

Measuring range	5m,10m(optional)	Power supply	14~28VDC
Accuracy	±0.5%F.S	Material	Engineering plastics
Temperature drift	±0.01F.S/°C	Ambient temperature	Converter:-20~60°C Probe:-20~80°C
Signal output	4~20mA RL<500Ω (standard)	Relay output	2 relays (5A 250VAC, 10A 24VDC)
Overload pressure	200%F.S	Ingress protection	IP65

### Parameter

#### SUP-P260 Submersible level transmitter

Range	0~100m	Accuracy	0.25% / 0.5% optional
Signal output	4~20mA, 1~5V, 0~5V, RS485	Sampling frequency	3 times/s
Overload pressure	150%F.S	Medium temperature	-20~60°C
Long-term stability	±0.2%F.S/year	Ingress protection	IP68
Zero temperature drift	± 0.3% FS/10°C ( -10~70°C )	Body material	304 SS or 316L SS



## Pressure

- Pressure Transmitter
- Digital Display Pressure Transmitter
- High Temperature Pressure Transmitter
- Digital Pressure Gauge
- Monocrystalline Silicon Pressure Transmitter

# Pressure

Pressure transmitter performance parameter			
Performance parameters	Pressure transmitter	Digital display pressure transmitter	High temperature pressure transmitter
<b>Model</b>	SUP-P300	SUP-PX300	SUP-P300G
<b>Power supply</b>	8~32VDC	12~36VDC	24VDC
<b>Output signal</b>	4~20mA, 1~5V, 0~10V 0~20mA, 0~5V, RS485, etc.	4~20mA	4~20mA
<b>Pressure range</b>	-0.1~60MPa	-0.1~60MPa	-0.1~60MPa
<b>Temperature compensation</b>	-10~70°C	-10~70°C	-10~70°C
<b>Storage temperature</b>	-40~85°C	-40~125°C	-40~85°C
<b>Medium temperature</b>	-20~85°C	-20~85°C	0~200°C
<b>Ingress protection</b>	IP65	IP65	IP65
<b>Pressure type</b>	Gauge pressure, absolute pressure, sealed pressure	Gauge pressure, absolute pressure, sealed pressure	Gauge pressure, absolute pressure, sealed pressure
<b>Accuracy</b>	0.2%, 0.25%, 0.5% optional	0.3%, 0.5% optional	0.3%, 0.5% optional
<b>Zero temperature drift</b>	±0.03%FS/°C	±0.03%FS/°C	±0.03%FS/°C
<b>Sensitivity temperature drift</b>	±0.03%FS/°C	±0.03%FS/°C	±0.03%FS/°C
<b>Overloading pressure</b>	150%FS	200%FS	200%FS
<b>Process connections</b>	Thread / sanitary	Thread / sanitary	Thread / sanitary
<b>Measuring medium</b>	Oil, water, gas, etc.	Oil, water, gas, etc.	Oil, water, gas, etc.

Pressure transmitter performance parameter			
Digital pressure gauge	Pressure transmitter	Monocrystalline silicon pressure transmitter	Monocrystalline silicon differential pressure transmitter
SUP-Y290	SUP-PX400	SUP-P3000	SUP-2051
3V battery powered	9~32V	24VDC	24VDC
-	4~20mA, 1~5V, 0~10V 0~20mA, 0~5V, RS485, etc.	4~20mA, 1~5V, 0~20mA, 0~5V, etc.	4~20mA, 1~5V, 0~20mA, 0~5V, etc.
-0.1~60MPa	-0.1~60MPa	-0.1~60MPa	-100KPa~3MPa
-10~70°C	-10~70°C	-10~70°C	-10~70°C
-40~125°C	-40~85°C	-50~85°C	-50~85°C
-20~85°C	-20~85°C	-40~100°C	-40~100°C
IP65	IP65	IP67	IP67
Gauge pressure, absolute pressure, sealed pressure	Gauge pressure, absolute pressure, sealed pressure	Gauge pressure, absolute pressure	Differential pressure
±0.5%	0.2% / 0.25% / 0.5% optional	0.075%FS, ±0.1%FS	0.075%FS
±0.03%FS/°C	±0.03%FS/°C	±0.03%FS/°C	±0.03%FS/°C
±0.03%V/°C	±0.03%FS/°C	±0.004%FS/°C	±0.004%FS/°C
< 40MPa 150%FS ≥ 40MPa 120%FS	0.035~10MPa 150%FS 10~60MPa 125%FS	200%FS	200%FS
Thread	Thread / sanitary	Thread	Thread
Oil, water, gas, etc.	Oil, water, gas, etc.	Oil, water, gas, etc.	Oil, water, gas, etc.

## SUP-P300 Pressure Transmitter

### INTRODUCTION

SUP-P300 adopts diffused silicon pressure sensor as the sensitive element, and the built-in processing circuit converts the millivolt signal of the sensor into standard voltage, current and frequency signal output, which can be directly connected with the computer, controller, and display instruments, etc. Remote signal transmission can be carried out. Product installation is convenient, with extremely high seismic and impact resistance.

### FEATURES

- ① Over-voltage and over-current protection circuit
- ② Strong anti-overload and anti-shock resistance and anti-interference ability
- ③ Wide practicability, high stability and long service life
- ④ High protection level to meet a wide range of needs
- ⑤ The laser trimming resistance to give a temperature compensation, and make it be used in a wide range of temperature
- ⑥ Surge voltage prevention, reverse polarity protection



## SUP-Y290 Digital Pressure Gauge

### INTRODUCTION

SUP-Y290 Digital pressure gauge is a high accuracy intelligent digital pressure gauge. It has high accuracy pressure sensor, which can display the pressure accurately and real-time, and has the characteristics of high accuracy and good long-term stability. The digital pressure gauge is equipped with a large size LCD, with reset, backlight, can be easily operated and installed, unit switching, low voltage alarm and other functions, can easily operate and install.

### FEATURES

- ① High quality 304 SS gauge with resistance and durability
- ② With a variety of measuring units, one key switch for more economical use
- ③ With temperature compensation, small temperature coefficient for more accurate measurement
- ④ With four-digit LCD display for accurate and intuitive reading
- ⑤ With maximum 1.5 times range overload and more peak recording function for more reliable use



### Parameter

#### SUP-P300 Pressure transmitter

Pressure range	-0.1~60MPa	Output signal	4~20mA, 1~5V, 0~10mA, 0~20mA, 0~5V, RS485
Accuracy	0.25% 0.3% 0.5%	Frequency	5kHz~650kHz
Working temperature	-20~85°C	Temperature compensation	-10~70°C
Medium temperature	-20~85°C	Storage temperature	-40~85°C
Pressure type	Gauge pressure, Absolute pressure, Seal pressure	Ingress protection	IP65

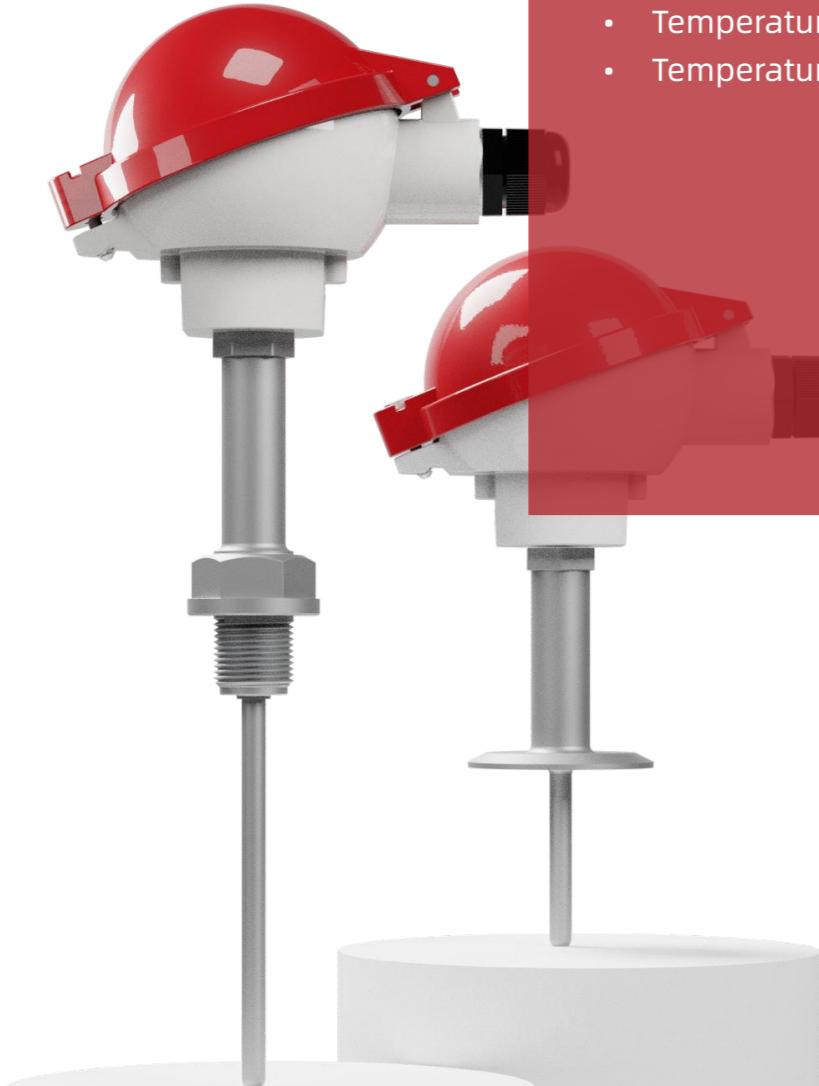
### Parameter

#### SUP-Y290 Digital pressure gauge

Accuracy	±0.5 %	Peak record	Yes (partial specification products)
Pressure range	-0.1~60MPa	Sampling frequency	3 times/s
Display screen	Four digits LCD display screen	Backlight color	White
Long-term stability	±0.2%F.S/year	Overload capacity	(0.035~10) MPa: 150%FS (10~60) MPa: 125%FS
Electro-magnetism compatibility	EMI resistant design, in line with EN61326	Data memory	Permanent EEPROM

# Temperature

- Head-Mounted clamp RTD
- Head-Mounted Clamp Thermocouple
- Temperature Transmitter
- Temperature Sensor



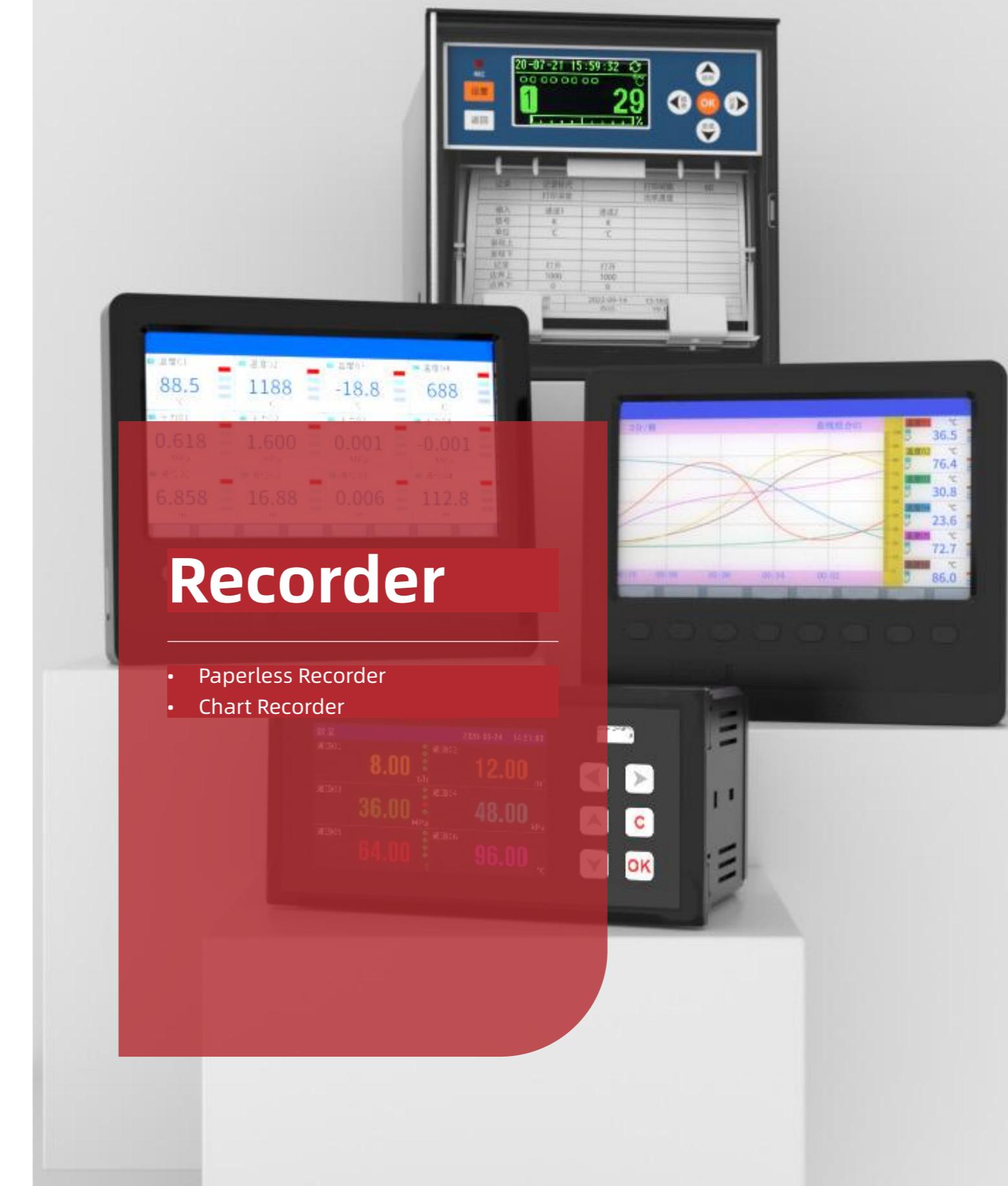
# Temperature

## Temperature performance parameter

Performance parameters	Head-Mounted clamp RTD	Head-Mounted RTD	Head-Mounted clamp thermocouple
<b>Model</b>	SUP-WZPK	SUP-WZPK	SUP-WRN
<b>Range</b>	-200°C ~450°C	-200°C ~450°C	0°C ~1100°C
<b>Signal type</b>	Resistance signal	Resistance signal	Millivolt signal
<b>Application</b>	Applicable to a variety of conventional environments	Applicable to a variety of conventional environments	Used in temperature measurement of boilers, dry furnaces, the oven, etc.
<b>Matching instrument</b>	Temperature transmitter	Temperature transmitter	Temperature transmitter
<b>Type of connections</b>	Terminal box	Terminal box	Terminal box
<b>Sensor type</b>	Pt100, Pt1000, Cu50, Cu100	Pt100, Pt1000, Cu50, Cu100	B, N, E, J, K, R, S, T
<b>Protective accessories</b>	304 SS (other materials can be customized)	304 SS (other materials can be customized)	High temperature ceramic
<b>Ingress protection</b>	IP67	IP67	IP67
<b>Optional</b>	Insulating type	Insulating type	Insulating type
<b>Process connection</b>	Thread / flange / clamp / sleeve	Thread / flange / clamp / sleeve	Thread / flange / clamp / sleeve

# Temperature

Temperature performance parameter		
Performance parameters	Temperature transmitter	Temperature transmitter
Model	SUP-ST500	SUP-P202
Range	-	-50°C ~200°C
Signal type	4~20mA, HART(optional)	Resistance signal
Application	RTD:PT100, Cu50 TC: K, B, E, J, S, T, R, N, 0~4500Ω	Applicable to a variety of conventional environments
Matching instrument	Programmable	-
Type of connections	Wire	-
Sensor type	-	Pt100, Pt1000, Cu50, Cu100
Protective accessories	-	304 SS (other materials can be customized)
Ingress protection	(Enhanced) shock resistance	IP65
Optional	-	-
Process connection	-	304SS / 316LSS / Others



# Recorder

Recorder performance parameter				
Performance parameters	Paperless recorder	Paperless recorder	Paperless recorder	Chart recorder
<b>Model</b>	SUP-RN3000	SUP-R6000C	SUP-RN6500	SUP-R1200
<b>Display</b>	3.5-inch LCD	7.0-inch LED	7.0-inch LED	OLED
<b>Display resolution</b>	320*240	800*480	800*480	128*64
<b>Input channel</b>	1~18	1~48	1~36	1~8
<b>Input signal</b>	(4~20)mA, (0~20)mA, (0~10)mA, RTD:PT100, Cu50, (1~5)V, (0~10)V, (0~5)V, TC:K, B, E, J, S, T, R, N, (0~20)mV, (-20~20)mV, (0~100)mV, RS485	(4~20)mA, (0~20)mA, (0~10)mA, RTD: PT100, Cu50, (1~5)V, (0~10)V, (0~5)V, TC:K, B, S, E, J, T, R, N, F2 (0~20)mV, (-20~20)mV, (0~100)mV	(4~20)mA, (0~10)mA, RTD: PT100, Cu50, (1~5)V, (0~10)V, (0~5)V, TC:K, B, E, J, S, T, R, N, (0~20)mV, (0~100)mV	(4~20)mA, (0~10)mA, RTD: PT100, Cu50, (1~5)V, (0~10)V, (0~5)V, TC:K, B, E, J, S, T, R, N, (0~20)mV, (0~100)mV
<b>Sampling interval</b>	1s	1s	1s	0.6s
<b>Record Interval (chart speed)</b>	1s~60min	1s~4min	1s~60min	10~2000mm/h
<b>Accuracy</b>	0.2%F.S	0.2%F.S	0.2%F.S	0.2%F.S
<b>Relay output</b>	4	18	8	8
<b>Analog output</b>	1	18	4	2
<b>Totalizer</b>	√	√	√	-
<b>Data transfer</b>	USB	USB	USB	Print
<b>Communication</b>	RS485	RS232 / RS485	RS485	RS232 / RS485
<b>Cutout dimension</b>	92 <sup>+1</sup> × 92 <sup>+1</sup> mm	138 <sup>+1</sup> × 138 <sup>+1</sup> mm	138 <sup>+1</sup> × 138 <sup>+1</sup> mm	138 <sup>+1</sup> × 138 <sup>+1</sup> mm
<b>Power supply</b>	85~264VAC, 24VDC(optional)	85~264VAC,12~36VDC	176~264VAC,47~63Hz	100~240VAC,24VDC

## SUP-RN3000 Paperless Recorder

### INTRODUCTION

SUP-RN3000 is an industrial paperless recorder equipped with 3.5-inch TFT LCD display, accept various types of current, voltage, thermocouple and thermal resistance and other industrial standard signals to realize monitoring, report, data communication, signal transmission, flow accumulation, flow temperature and pressure compensation and other functions. It can be used in various industries such as metallurgy, petroleum, chemical industry, building materials.

### FEATURES

- With flow calculation and temperature and pressure compensation
- Up to 18 channels multi-function analog signal inputs
- 5 parameter display methods (overview, tour display, digital display, bar graph, real-time curve graph)



### Parameter

SUP-RN3000 paperless recorder			
Display screen	3.5-inch TFT LCD display	Record Interval	1s~60min optional
Dimension	Overall dimension: 96 x 96 x 100 mm Panel cutout dimension: 92 <sup>+1</sup> x 92 <sup>+1</sup> mm	Storage time	at least 18 days (based on record interval)
Communication	RS485, baud rate 1200bps~115200bps optional	Output	4 alarm outputs and 1 power distribution output (optional)
Input signal	Voltage: (0~5)V, (1~5)V, (0~10)V, Current: (0~10)mA, (0~20)mA, (4~20)mA Thermocouple: B, E, J, K, S, T, N, R, WRe5-26, WRe3-25 Thermal resistance: Pt100, Cu50, Pt100 (others can be customized)	Ambient temperature	Environmental temperature: (0~50)°C Environmental humidity: (10~85) %RH (no condensation)

## SUP-RN6500 Paperless Recorder

### INTRODUCTION

The RN6500 is a highly efficient industrial recorder equipped with a 7-inch full-view HD screen for clear display. It supports 12 recording modes and automatically exports historical data to a USB drive, making it easy to operate. The Windows-style interface, combined with multilingual support, ensures user-friendly operation. It includes built-in flow calculation and temperature/pressure compensation for precise adaptation to complex scenarios. The device supports time/daily/monthly reports and alarm logs. With comprehensive functions (including screenshot capability and customizable startup screen), it offers strong expandability, helping to improve data management and automation efficiency.

### FEATURES

- ① 7-inch TFT true color full-view lcd display;
- ② Up to 12 recording intervals;
- ③ Supports online firmware upgrade (via USB drive or 485 interface);
- ④ Automatic scheduled export of historical data;
- ⑤ 8 Flow Accumulation Channels, capable of generating time, daily, monthly reports, alarm reports, operation logs, and power-off records.



## SUP-R1200 Chart Recorder

### INTRODUCTION

SUP-R1200 Chart recorder has up to 8 input channels, 2 analog outputs, the channels are isolated by points, can be directly selected to receive a variety of thermocouples, RTDs, pressure transmitters, voltage, current signals and printed on its own 120mm wide paper grid at the same time to record the scale value, time and every signal curve, and the channel number printed on the track of each channel next. Printing and recording function adopts imported fixed thermal head, no ink consumption, no pen position error, anti-vibration.

### FEATURES

- ① Rich information is presented simultaneously
- ② Two types of display: set-channel and circular
- ③ Maximum 8 universal channels
- ④ Allowable Panel Thickness: 2~26 mm
- ⑤ With zero consumption of pens or ink
- ⑥ No errors caused by the pen's position



### Parameter

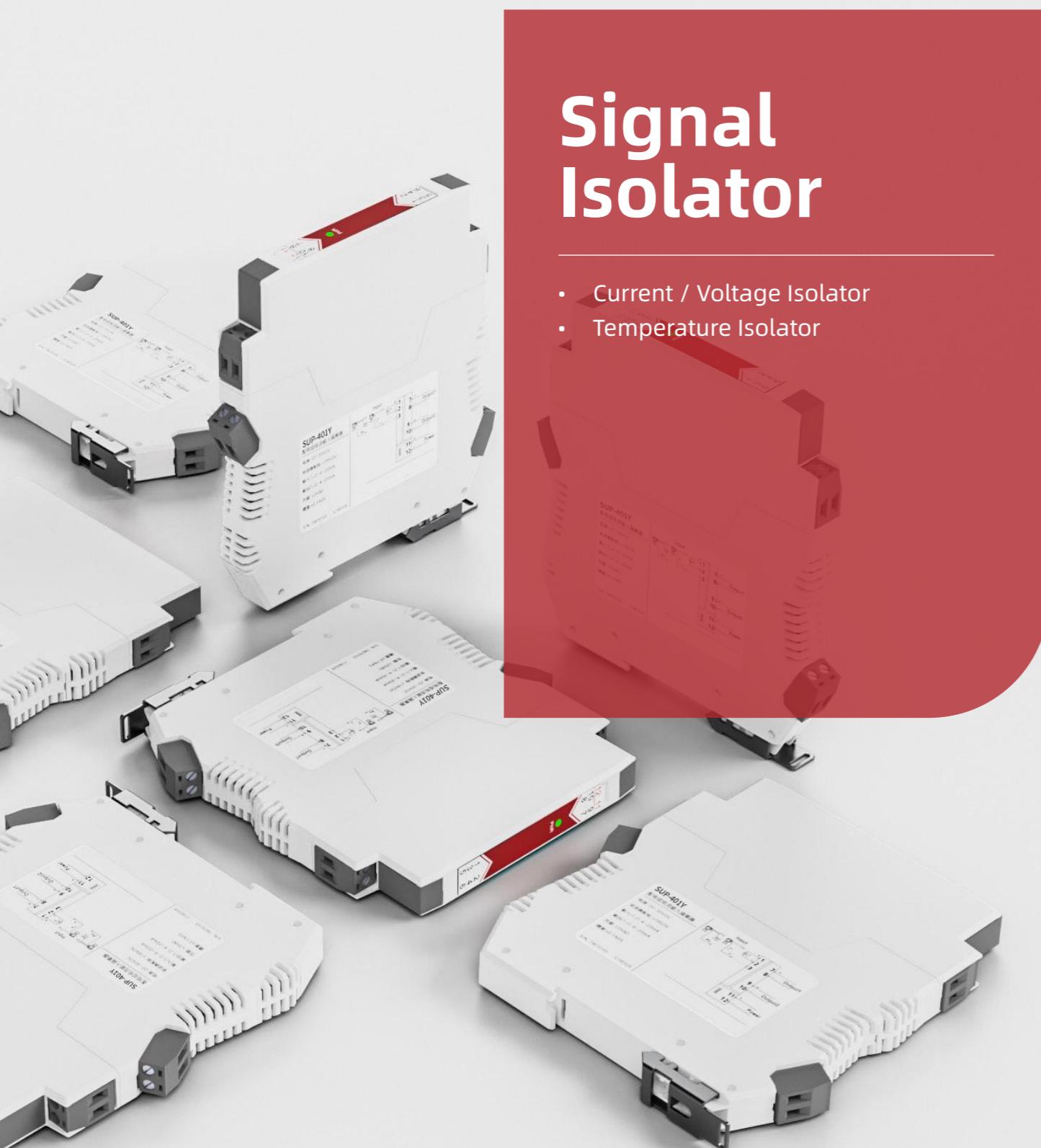
#### SUP-RN6500 Paperless recorder

<b>Display</b>	7-inch TFT true-color LCD display, resolution 320x240, with high-brightness LED backlight	<b>Communication</b>	RS485 input, RS485 output, and Ethernet communication interface
<b>Power Supply</b>	AC: (85~264)V AC, (50~60)Hz DC: 24V DC±10%	<b>Operating Temperature</b>	(0~50) °C
<b>Maximum Power Consumption</b>	20W	<b>Operating Environment</b>	Relative humidity: 10%-85% RH (non-condensing)
<b>Repeatability</b>	128M	<b>Dimensions</b>	193mm×162mm×138mm
<b>Interface Languages</b>	Simplified Chinese, English, Spanish, Korean	<b>Panel Cut-Out Dimensions</b>	138mm×138mm
<b>Power-Down Protection</b>	Equipped with power-down protection to ensure historical data and configuration parameters are retained during power loss.		
<b>Alarm Output</b>	Up to 22 channels; all relay contacts are normally open, contact rating 2A / 250VAC (resistive load).		

### Parameter

#### SUP-R1200 Chart recorder

<b>DC current</b>	0~10mA, 4~20mA, 4~20mA <sub>sq</sub>	<b>DC voltage</b>	0~20mV, 0~50mV, 0~100mV, 0~5V, 1~5V, 1~5V <sub>sq</sub> , 0~10V
<b>Record points</b>	Maximum 8 Channels	<b>Paper feed speed</b>	10~2000mm/h
<b>Communication</b>	RS485, baud rate 1200bps~115200bps optional	<b>Power supply</b>	220VAC/24VDC
<b>Thermo-couple</b>	S, B, K, T, E, J, R, N	<b>RTC</b>	PT100, Cu100, Cu50
<b>Chart paper</b>	Folding, valid chart format 104mm	<b>Warm-up time</b>	30 mins after power connection



# Signal Isolator

## Isolator performance parameter

Performance parameters	SUP-602S Current / Voltage isolator	SUP-603S Temperature isolator	SUP-401Y Distribution isolator	SUP-402Y Current / Voltage isolator
<b>Model</b>	SUP-602S	SUP-603S	SUP-401Y	SUP-402Y
<b>Input signal</b>	0(4)~20mA, 0~10mA	RTD, TC, mV	4~20mA	4~20mA, 0~20mA, 1~5mA, 0~5V, 0~10V
<b>Output signal</b>	0(4)~20mA, 0~10mA, 0(1)~5V, 0~10V	4~20mA, 0~10mA, 0~20mA, 1~5V, 0~10V	4~20mA, 1~5V	4~20mA, 0~10mA 0~20mA, 1~5V, 0~10V
<b>Power supply</b>	18~32VDC	18~32VDC	20~30VDC	20~30VDC
<b>Installation</b>	35mm DIN-rail mounting			
<b>Linearity</b>	-	0.10%	-	-
<b>Resolution ratio</b>	-	0.1%PN	-	-
<b>Accuracy</b>	±0.1%F·S(25°C ±2°C )	±0.2%F·S (25°C )	±0.1%F·S	±0.1%F·S
<b>Insulation and voltage resistance</b>	-	3kV/50Hz 1Min	≥ 100mΩ/500VDC	≥ 100mΩ/500VDC
<b>Unbalanced voltage</b>	-	< 10mV	-	-
<b>Output temperature</b>	≤ 40PPM/°C	≤ 40PPM/°C	-	-
<b>Frequency bandwidth</b>	20~5kHz	20~5kHz	-	-
<b>Current consumption</b>	< 5mA+output current		≤ 45mA(1input 1output), ≤ 58mA(1input 2output) ≤ 70mA(2input 2output)	
<b>Loading capacity</b>	Voltage: ≥ 2mΩ	30 times nominal input	-	-
<b>Response time</b>	≤ 0.5s	≤ 0.5s	≤ 0.5s	≤ 0.5s
<b>Operating temperature</b>	-20°C ~+60°C	-20°C ~+60°C	-20°C ~+60°C	-20°C ~+60°C
<b>Storage temperature</b>	-40°C ~+80°C	-40°C ~+80°C	-40°C ~+80°C	-40°C ~+80°C

# Customer Reference



# Global Supply Chain & Service Network

## Headquarter, China

Mail: info@supmea.com  
 Tel: 86-15158063876  
 Add: 5th floor, Building 4, Singapore Hangzhou Science & Technology Park, Hangzhou Economic & Development Area, Hangzhou 310018, China

## Science and Technology Park, China

Add: No.369, Kechuang Road, Tongxiang, China

## Singapore Branch (Overseas Warehouse, Singapore)

SUPMEA INSTRUMENT PTE. LTD.  
 Mail: info@supmea.com  
 Add: 2 Venture Drive #11-30 Exchange Singapore

## Overseas Warehouse, Malaysia

Add: No 3, Jalan Emas Jaya 1, Taman Industries Emas jaya Tongkang Pecah; Malaysia

## Overseas Warehouse, Vietnam

Add: LK4-03 Doc Bun 1 Street, Van Khe, La Khe, Ha Dong, Hanoi

## Overseas Warehouse, Philippines

Add: Block 11, Lot 27, Park Place, Pueblo De Oro, San Rafael, Sto Tomas City, Batangas, Philippines

## Overseas Warehouse, Indonesia

Add: Jl. Rukan Rose Garden 5 No. 76, Grand Galaxy City, Jakasetia, Bekasi Selatan 17147, Jawa Barat, Indonesia

## Overseas Warehouse, Korea

Add: Gongwon-ro, Gwangmyeong-si, 14348, Gyeonggi-do, Korea

## Overseas Warehouse, South Africa

Add: Wild Fig Business Park - Entrance 1, Unit A, 1494 Cranberry St, Honeydew, Roodepoort, 2170; South Africa

## Supmea Automation Co.,Ltd.

🌐 [www.supmeaauto.com](http://www.supmeaauto.com)  
📞 86-13735803162 (Whatsapp/Wechat)  
✉️ [sales06@supmea.com](mailto:sales06@supmea.com)

