## Supmea



## **Product Overview**

Committed to Process Automation Solutions

## **DIRECTORY**

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01 Company Profile Company Profile 02

Turn over \$50 million

corporate customers in 139 countries and regions.

## **Company Profile**

Member of SAC/TC124 Council Member of China Intruments Manufactures Association Estimated \$150 million Council Member of China Instrument and Obtained A+ round E-commerce Control Society financing Department Nationwide National High-Established Turn over \$75 was established branch offices tech Enterprise million Instrument Cloud launched 2011 2020 2022 2025 2006 2016 2018 2017 2021 2023 2010 2013 2019 Supmea Science and Moved to Established Technology Park opened Multi-platform of Supmea Series B financing completed Supmea, founded in 2006, is a national-level high-tech Qiantang operation mode Awarded Specialized and enterprise specializing in the product development, Zhejiang Science Technology Sophisticated Enterprise SMEs manufacturing, sales, and service of process and Qiantang District
Technology Enterprise Construction of automation instruments. With nearly 500 employees, Supmea is headquartered in Hangzhou's Qiantang Co.,Ltd new factory Obtained A round district, which integrates a national-level economic and Construction of technological development zone, a university town, and Supmea Science a cross-border e-commerce zone. and Technology Park Independent APP launched Supmea Science and Technology Park in Jiaxing, Zhejiang, is equipped with an advanced electromagnetic flowmeter calibration system, a 1500m² 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 The company has established 38 domestic offices and overseas branches and set up a subsidiary, overseas warehouses and agencies, serving over 700,000

03 Company Profile Qualifications and Honors 04

#### Headquarters



Nerve center

#### Science and Technology Park



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



Industry-leading flowmeter calibration system



1500m² professional laboratory



Two world-class SMT patch lines



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

## **Qualifications** and Honors













07 Flow Flow

## **Flow**

Flowmeter performance parameter				
	Supmea	Supmea	● ● ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
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 ( > 30µs/cm)	Conductive liquid ( > 50µs/cm)	Conductive liquid ( > 50µs/cm)	Conductive liquid ( > 50µs/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	±0.5%	±0.5%	±0.5%	±0.5%, ±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 Wall-mounted ultrasonic flowmeter Liquid turbine flow meter Vortex flowmeter Thermal gas mass flowmeter Variable area flowmeter SUP-1158S LWGY-SUP LUGB-SUP SUP-MF LZ-SUP Water, oil and other Liquid Water, air Gas, liquid, steam Gas single medium liquids DN4-DN200 DN65~DN1000 DN32~DN1200 DN15~DN300 DN15~DN200 0.6~4.0MPa 1.0~2.5MPa ≤ 2.5MPa 4.0MPa / 1.6MPa ±1.5% / ±1% ±0.5%, ±1% ±1.5% ±2.5% ±1.0% 1:10 1:10 1:100 Customizable 10:1 / 20:1 304 SS, Stainless steel Stainless steel Stainless steel PVC/FRP 316(L) SS Medium Medium temperature: Local type -40°C ~120°C Medium temperature: temperature: Medium -40°C ~+300°C -20°C ~+120°C -40°C ~+300°C temperature: Ambient temperature: Ambient Ambient temperature: Remote type -30°C ~+80°C -20°C ~+60°C -20°C ~+45°C -30°C ~60°C temperature: -20°C ~+55°C 4~20mA / pulse 4~20mA / pulse 4~20mA / pulse 4~20mA / pulse 4~20mA(Analog) 4~20mA / RS485 / RS485 RS485 / HART RS485 RS485 MODBUS M20×1.5 Thread M20×1.5 Thread M20×1.5 Thread M20×1.5 Thread IP65 IP65 IP65 IP65 IP65

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## **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 antiinterference
- Good linearity of measure, high repeatability
- Wide measuring range, complete series
- 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
Communi- cation	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**

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



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			

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## **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**

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









#### **Parameter**

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)℃ (Stainless steel pipe)	Environmental conditions	Ambient temperature: (-20~ + 60)℃ , Relative humidity: 5%~90%
Operating temperature	<5×10~6 m²/s (>5×10~6 m²/s liquid, require	solid liquid calibr	ation)

### **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 relatively advanced and ideal measuring instrument.

#### **FEATURES**

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



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, atmo	spheric pressure 86~106KPa

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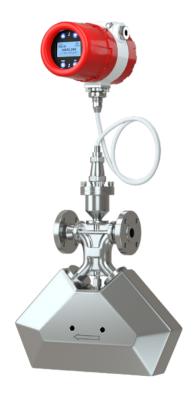
### FCC300 Coriolis Mass Flow Meter

#### 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 ±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
- High measurement accuracy (accuracy better than 0.1%)
- Wide turndown ratio, typically 15:1 or 20:1 while maintaining stated accuracy
- 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
- 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
- No moving parts in the sensor body, ensuring high reliability, long-term stability, and easy maintenance due to its simple construction



Triangular Type



U-Shaped Type



Straight-Tube 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)

FCC300 Coriolis mass flow meter				
Measured Variables	Mass Flow, Density, Temperature		Straight-Tube Type:DN8~DN80	
Process Pressure	(0 ~ 4.0) MPa	Nominal Diameter	U-Shaped Type:DN20~DN150	
Protection Rating	IP67		Triangular Type:DN3~DN15	
Accuracy	Flow:0.1 Class、0.2 Class、0.5 Class Density:±0.002g/cm³ Temperature:±1°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				
Performance parameters	Supmea  Proof General  11.44mA  6.51pH  Company  Company	Supmea  Pass D'C 11.44mA  6.51 pH  NOW 0  PH controller	Supmea  Supmea  O.33 pH  BESONA  25.0°C  PH controller	Supmea  1-25.0°C  8.00mA  50.00 us/cm
Model	SUP-DC2000	SUP-PH6.5	SUP-PH(CCEP)	SUP-TDS210-B
Display	2.8-inch LCD display	2.8-inch LCD display	4.3-inch TFT display	2.8-inch LCD display
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 (0~120000mg/L)	pH (0~14pH) ORP (-1000~+1000mV/ -2000~+2000mV)	pH(-2~16pH) ORP(-1999~1999mV)	0.01electrode (0.20~200.0µS/cm) 0.1electrode (2.00~2000µS/cm) 1.0electrode (0.02~20.0mS/cm) 10.0electrode (0.20~200.0mS/cm) Temperature (-10~130°C)
Relay output	One set of high and low (3A/250VAC) , norma			The relay load is 3A/250VAC
Communication	RS-485 communication,	MODBUS RTU		
Transmission	Isolated 4~20mA output	t, the maximum loop is 750	0Ω, ±0.2%F.S	
Operating temperature	(0~60)° C			
Power supply	(100~240)VAC; 24VDC(optional)	220VAC±10%, 50Hz/60Hz	(100~240)VAC, 5WMax,50/60Hz	220VAC±10%, 50Hz/60Hz; 24VDC±20% Inputpower≥6W
Overall dimension(mm)	100×100×150	100×100×150	144×144×115	100×100×150
Cutout dimension(mm)	92.5 <sup>+1</sup> ×92.5 <sup>+1</sup>	92.5 <sup>+1</sup> ×92.5 <sup>+1</sup>	138 *1×138*1	92.5 <sup>+1</sup> ×92.5 <sup>+1</sup>

		Controller pe	rformance parameter
Performance parameters	Online turbidity meter  Online turbidity meter	Supmea Strome and strome stronger	Water Quality Analyzer  Residual chlorine controller
Model	SUP-PTU300	MDX500	SUP-TRC400
Weight	4.5kg	30kg	8kg
Ingress protection	IP54	IP54	IP43
Range	0~1NTU 0~20NTU 0~100NTU Optional	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(0~2000uS/cm) (optional) Dissolved oxygen(0~20mg/L) (optional)	Residual chlorine(0~5mg/L) Temperature(0.1~40.0°C)
Accuracy	±2% or ±0.015 NTU (Based on Formazin Primary Standard at 25℃)	-	-
Resolution	0.001NTU	-	0.01
Zero point drift	≤ ±0.015NTU	-	-
Power supply	24VDC	220VAC±10%, (50±1)Hz	220VAC±10%, (50±1)Hz
Operating temperature	(0~50)℃	(4~50)°C / (-25~+50)°C (optional temperature control heating antifreeze module)	(0~40)℃ (No condensation)
Relative humidity	5~95%RH(No condensation)	≤ 95%RH(No condensation)	≤ 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**

- 4.3-inch true-color LCD display, rich in content, view all data at a glance
- 3 level menu design, simplify the operation process, easier to getstarted, more convenient to operate
- Historical data can be viewed through the record option, currently supports 100 sets of data storage
- Can set the buzzer, LCD backlight switch function
- 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



#### **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>+1</sup> ×138 <sup>+1</sup> mm

## **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**

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



SUP-PH6.5 pH controller			
Measuring range	pH: 0.00~14.00pH ORP: -1000mV~+1000mV/-2000mV~+2000m	nV (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 - PT1000: Accuracy ±0.3°C ,-10°C -130°C man		±2°C
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**

- (4~20) mA isolated transmission output, which is less affected by interference
- RS485 communication (MODBUS-RTU protocol)
- Isolating transmitting output, with little interference
- 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
- Innovative integrated body,sophisticated structure design
- Wall-mounted installation, easy and convenient
- Third-generation laser light source technology, without external measurement probe
- 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≥	e 6W
Measuring range	0.01 electrode: (0~20.00)µS/cm or (0.05 ~20 1.0 electrode: (2.00~2000)µS/cm, maximum Temperature range: (-10~130)°C ( It is not re	20000uS/cm; 10	0.0 electrode: (0.02~20.00)mS/cm

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	

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## **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**

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

#### **APPLICATIONS**







Swimming pool

Secondary water supply



#### **Parameter**

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℃	/	/
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		≤ 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

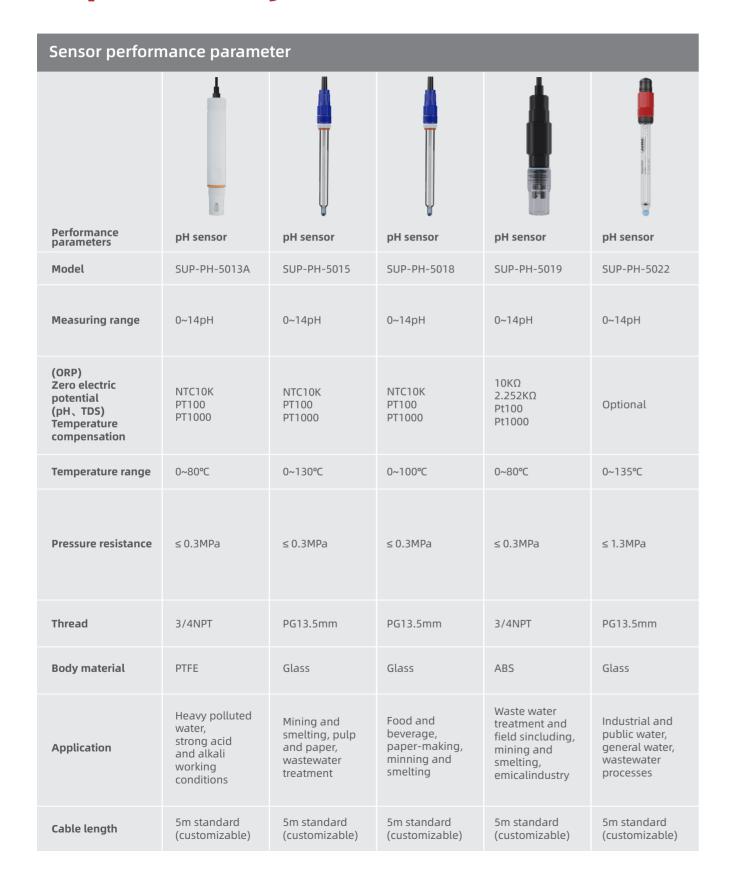
MDVE00 Multi parameter controlle

#### **Selection parameters**

★ Indicates that the model has this parameter

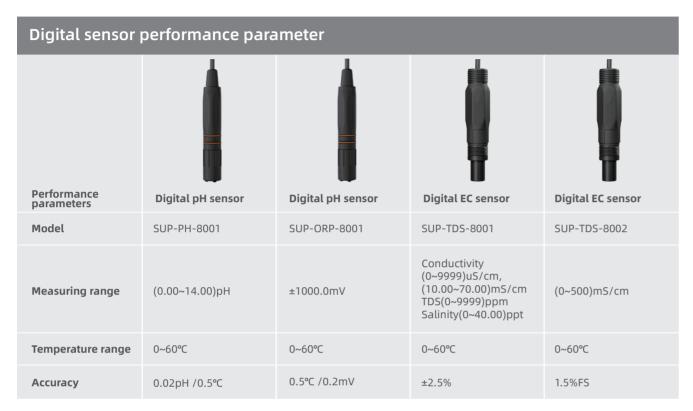
	M1	M2	M3	M4	M5	М6
Turbidity	*	*	*	*	*	*
Residual chlorine	*	*	*	*	*	*
рН	*	*	*	*	*	*
Temperature					*	*
Conductivity				*	*	
Dissolved oxygen						*
Material	Plastic case	Stainless steel				

## **Liquid Analysis**



			Control	ler performand	ce parameter
pH sensor	pH sensor	ORP sensor	ORP sensor	EC sensor	EC sensor
SUP-PH-7001 0~14pH	SUP-PH-7003 2~12pH	\$UP-ORP-6045 ±1999mV	SUP-ORP-6050 -2000~2000mV	0.01~20 / 0.1~200 1~2000µs/cm (optional)	0.1us/cm ~70ms/cm
Optional	NTC10K PT100 PT1000	245~270mV	245~270mV (Measured at 15~30°C) 256mV Calibration fluid	NTC10K PT100 PT1000 NTC2.252K	Optional
0~80°C	5~80°C	5~60°C	0~80°C	0~50°C	0~80°C
≤ 0.3MPa	≤ 0.6MPa	≤ 0.4MPa	≤ 0.3MPa	≤ 5bar (Electrode constant 0.01, 0.1) ≤ 7bar (Electrode constant 1.0)	≤ 0.3MPa
3/4NPT	3/4NPT	PG13.5mm	3/4NPT	3/4G, 3/4NPT(optional)	3/4G
PPS	PPS	Glass	PPS	304 SS, 316 SS	PPS, POM, Graphite
With suspended matter in solution, such as aquaculture, mining	Industrial processes, wastewater treatment, waste gas treatment	Industrial wastewater, acid-base neutralization and strong acid and alkali conditions	With suspended matter in solution, such as aquaculture, mining	Pure water, water treatment, tap water	Pure water, wastewater treatment, mariculture, semiconductor
5m standard (customizable)	5m standard (customizable)	5m standard (customizable)	5m standard (customizable)	5m standard (customizable)	5m standard (customizable)

## **Liquid Analysis**



Digital sensor	performance para	ımeter		
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℃	Less than ±5% (depending on sludge homogeneity)	Less than ±2% of the measured value or ±0.1NTU

## **DC2000 Universal Controller**

#### **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**

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





Side



#### **APPLICATIONS**





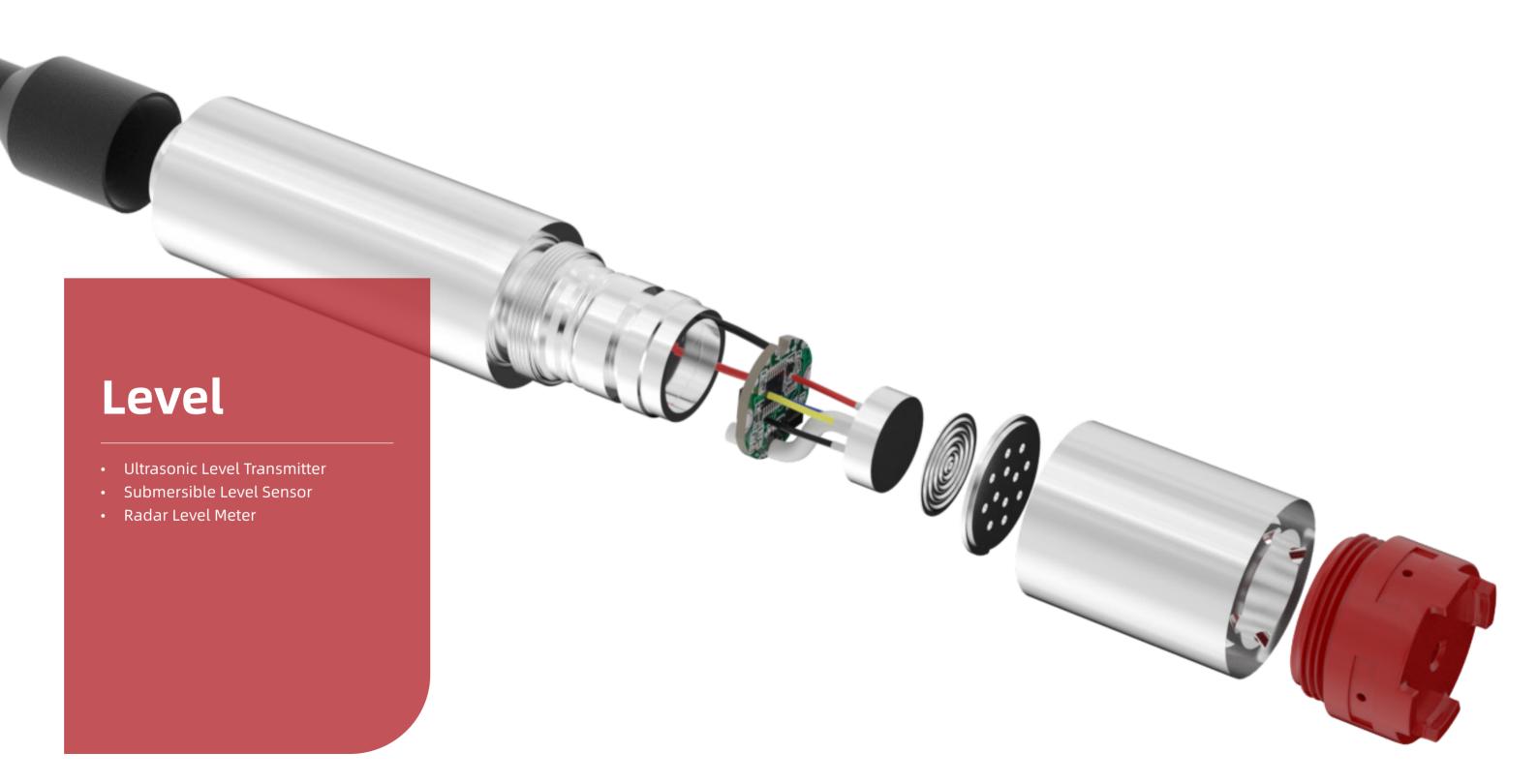


Dosage monitoring



Process agricultural water

29 Level 30



31 Level Level 32

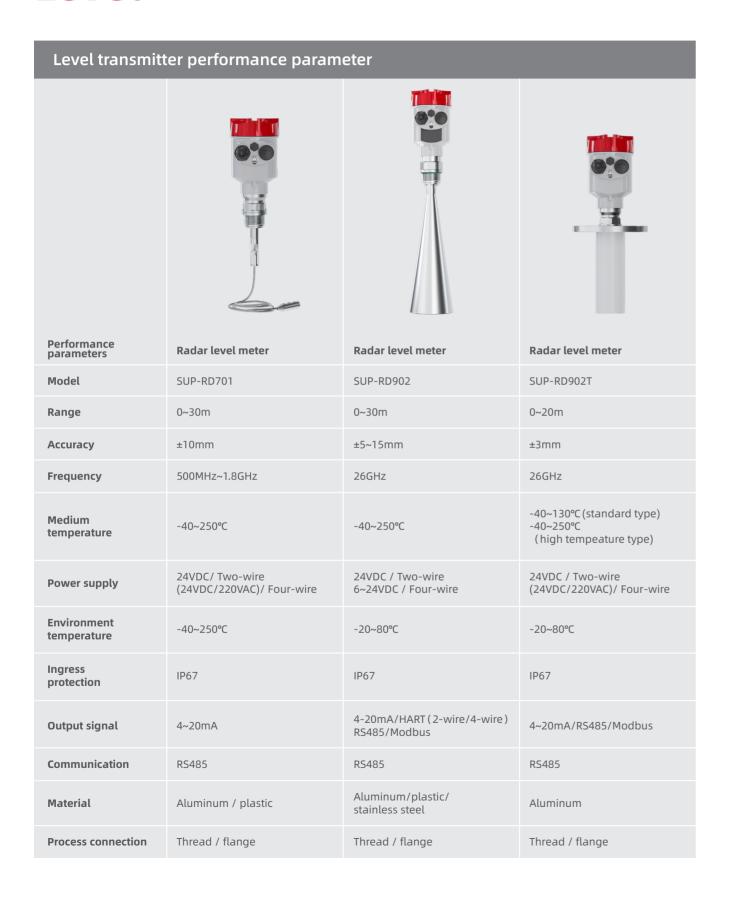
## Level

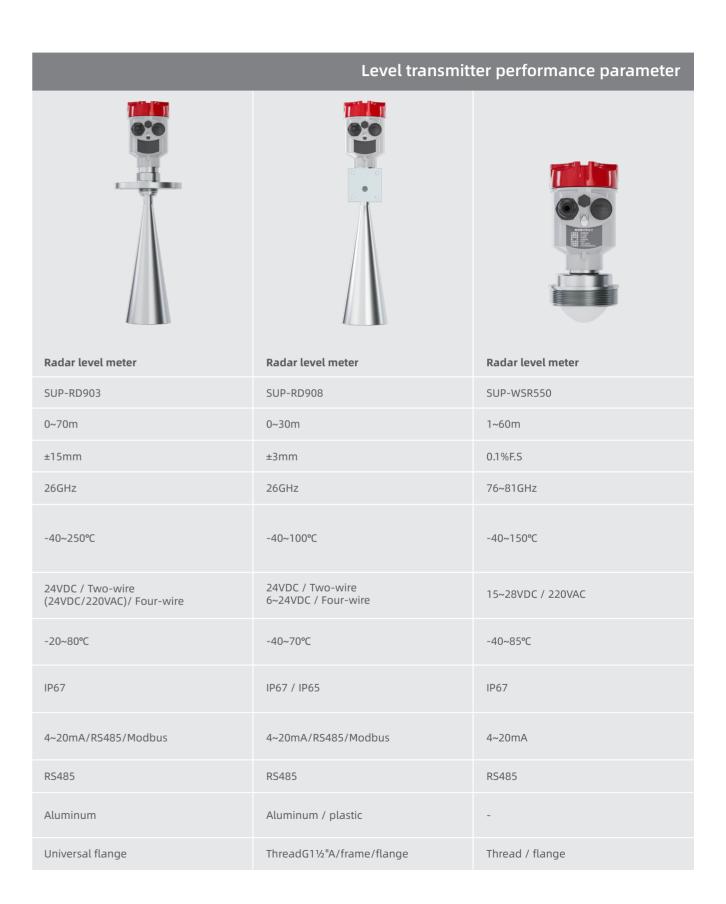




33 Level Level 34

## Level





35 Level Level 36

### **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



#### **Parameter**

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

### **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
- Corrosion resistance, power supply is not required
- Good sealing performance, high reliability, safe use
- The high quality sensor with high sensitivity and fast response
- Wide measurement range, free from the limit of height of storage tank
- The anti blocking design can realize the measurement of the level of paste medium







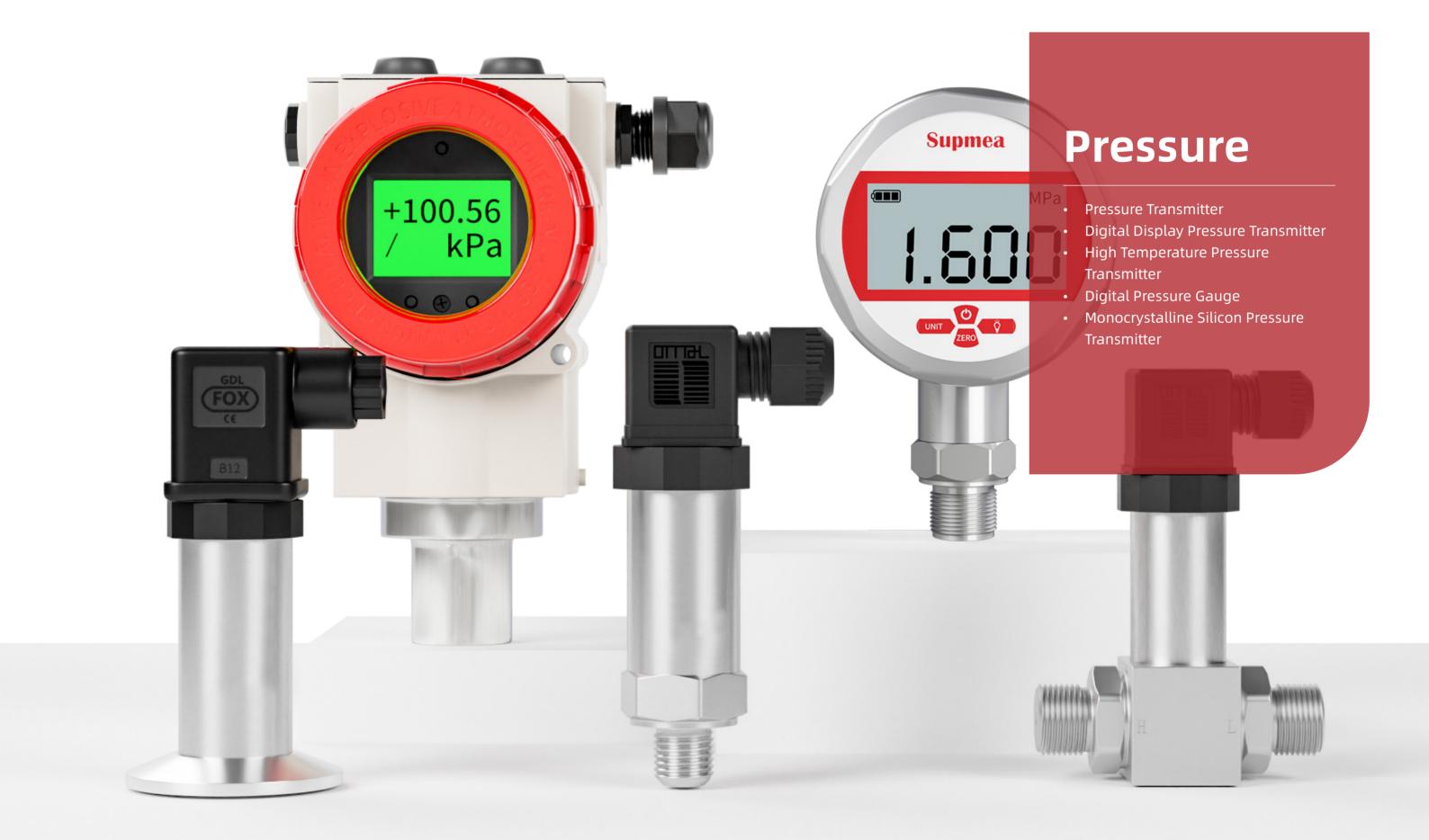
Removable probe and corrosion-resistant diaphragm

#### **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

37 Pressure 38



39 Pressure 40

## **Pressure**

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

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

41 Pressure Pressure

### **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**

- Over-voltage and over-current protection circuit
- Strong anti-overload and anti-shock resistance and anti-interference ability
- Wide practicability, high stability and long service life
- 4 High protection level to meet a wide range of needs
- 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



#### **Parameter**

		I I	
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℃	Temperature compensation	-10~70℃
Medium temperature	-20~85℃	Storage temperature	-40~85°C
Pressure type	Gauge pressure, Absolute pressure, Seal pressure	Ingress protection	IP65

## **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.

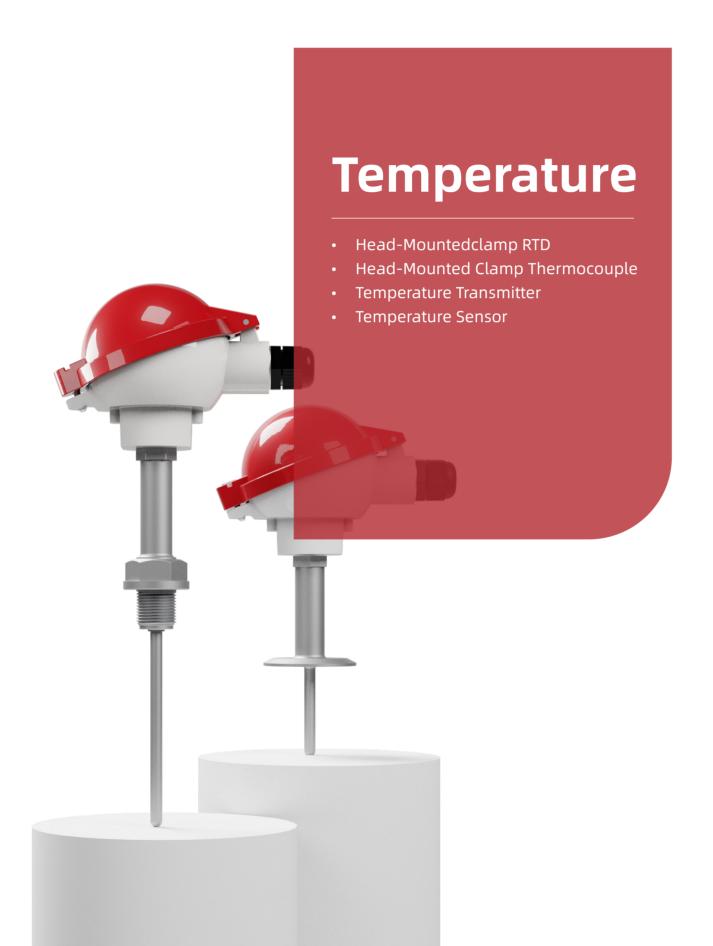
#### **FEATURES**

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



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	

43 Temperature 44



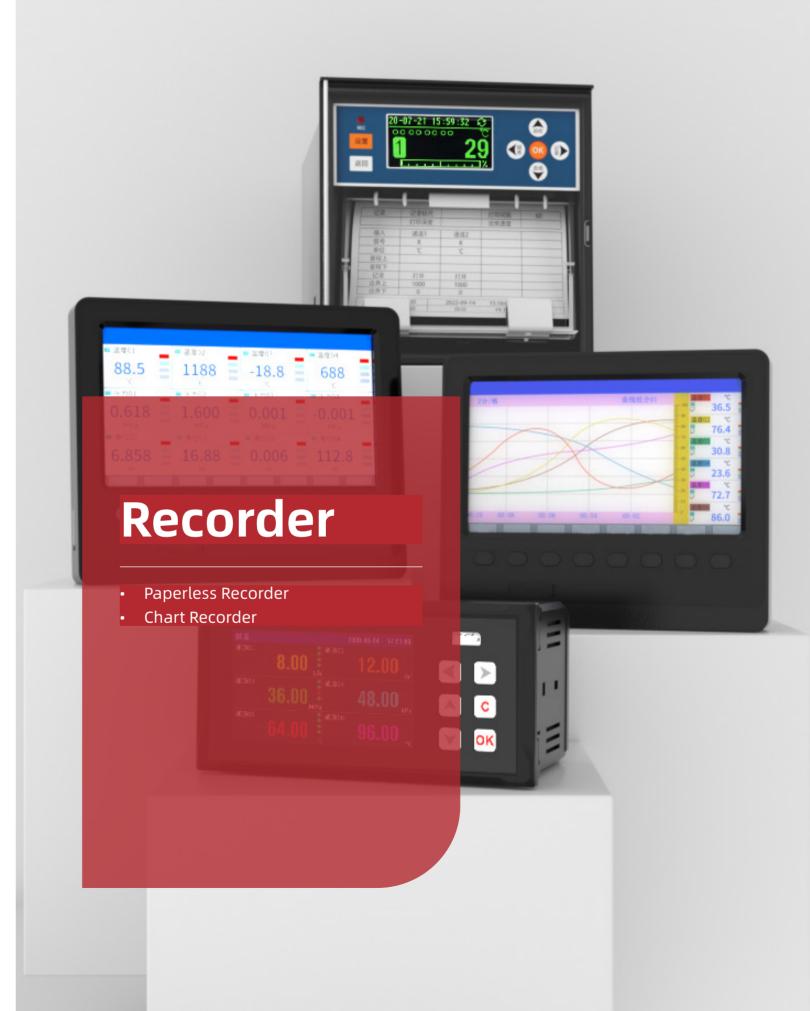
## **Temperature**

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

45 Temperature Recorder 46

## **Temperature**





47 Recorder 48

## Recorder



## **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 otherindustrial standard signals to realize monitoring, report, data communication, signaltransmission, flow accumulation, flow temperature and pressure compensation and otherfunctions. It can be used in various industries such as metallurgy, petroleum, chemicalindustry, building materials.

#### **FEATURES**

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

3.5-inch T

Overall di

Panel cuto

RS485,bai



#### **Parameter**

Display

screen

Dimension

Communi-

cation

TFT LCD display	Record Interval	1s-60min optional
imension: 96 x96 x100 mm tout dimension: 92 <sup>+1</sup> x92 <sup>+1</sup> mm	Storage time	at least 18 days (based on record interval)
aud rate	Output	4 alarm outputs and 1 power distribution

SUP-RN3000 paperless recorder

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, signal WRe5-26, WRe3-25

1200bps~115200bps optional

WRe5-26, WRe3-25 Thermal resistance: Pt100, Cu50, Pt1000 (others can be customized) Ambient temperature Environmental temperature: (0~50)°C Environmental humidity: (10-85) %RH (no condensation)

output (optional)

49 Recorder 50

## **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**

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



#### **Parameter**

SUP-RN6500 Paperless recorder							
Display	7-inch TFT true-color LCD display, resolution 320×240, with high- brightness LED backlight	Communication	RS485 input, RS485 output, and Ethernet communication interface				
Power Supply	AC: (85~264)V AC, (50~60)Hz DC: 24V DC±10%	Operating Temperature	(0~50) ℃				
Maximum Power Consumption	20W	Operating Environment	Relative humidity: 10%-85% RH (non-condensing)				
Repeatability	128M	Dimensions	193mm×162mm×138mm				
Interface Languages	Simplified Chinese, English, Spanish, Korean	Panel Cut-Out Dimensions	138mm×138mm				
Power-Down Protection	Equipped with power-down protection to ensure historical data and configuration parameters are retained during power loss.						
Alarm Output	Up to 22 channels; all relay contacts are normally open, contact rating 2A / 250VAC (resistive load).						

### **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.

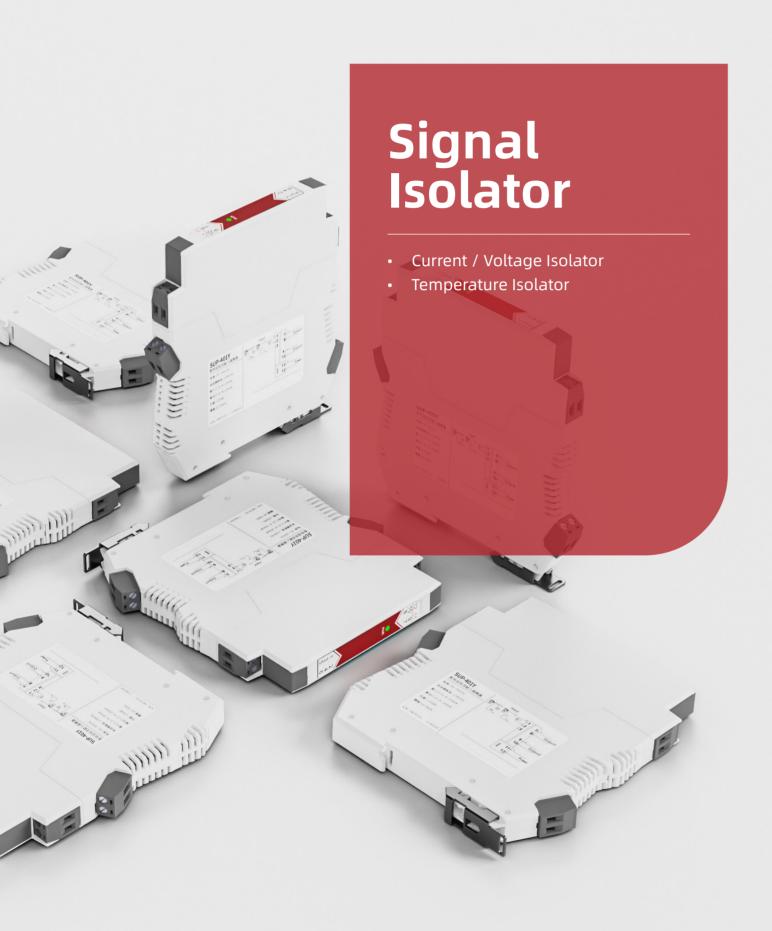
#### **FEATURES**

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



SUP-R1200 Chart recorder						
DC current	0~10mA, 4~20mA, 4~20mAsq	DC voltage	0~20mV, 0~50mV, 0~100mV, 0~5V,1~5V, 1~5Vsq,0~10V			
Record points	Maximum 8 Channels	Paper feed speed	10~2000mm/h			
Communi- cation	RS485,baud rate 1200bps~115200bps optional	Power supply	220VAC/24VDC			
Thermo- couple	S, B, K, T, E, J, R, N	RTC	PT100, Cu100, Cu50			
Chart paper	Folding, valid chart format 104mm	Warm-up time	30 mins after power connection			

51 Signal isolator 52



## **Signal Isolator**

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



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