



Water & Wastewater Industry Solutions

Committed to process automation solutions

DIRECTORY

Company Profile

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Supmea in Water & Wastewater Industry

Water & Wastewater Treatment Process

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Sales and Service Network



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Corporation Profile



Supmea is committed to industrial process automation sensors and instrument since its establishment for decades. The main products are liquid analysis instrument, recorder, pressure transmitter flowmeter and other field instruments.

Sumpea Automation Co.,Ltd. is a governing unit of the China Instrument and Control Society. Due to its outstanding achievements in enterprise development in enterprise development in recent years, recent years, it has been awarded the honorary titles of Most Growth Enterprise, Zhejiang Science and Technology

Enterprise, and National High-tech Enterprise since 2013. By 2023, Supmea has a wide quantities of R&D researchers and engineers, more than 400 employees in the total group. With diverse market needs and global customers, Supmea has established and prepared its office in Singapore, Philippines, Malaysia etc.

Customer-centric. Supmea will continuously be committed to process automation sensors and instruments, playing an indispensable role in supporting world industries more intelligent and efficient.



02 /Customer-centered, striver-oriented

Qualification Honor









Supmea in Water & Wastewater Industry

In the water & wastewater industry, Supmea has a wealth of product solutions to help users better manage and utilize water resources, thereby reducing water costs and protecting water resources.

Supmea, committed to process automation solutions, promotes efficient, green and sustainable development in the industrial field by providing industrial customers with high-quality, high-efficiency, and high-precision process automation instrument products and solutions.

Up to now, a series of process automation instruments, including temperature, pressure, flow, level, analysis, etc., have been widely used in water treatment plants, sewage treatment plants and various industries. In the future, Supmea will continue to explore market demand, develop and produce more intelligent, automated and sustainable products, as well as rich lloT solutions, to help customers realize scientific management and economical use of water resources.



The business scope covers 138 countries and regions around the world, the total number of users exceeds 630,000. Typical users include Wahaha, Nongfu Spring, Nestle, BEWG, Hanlan Environmental, OriginWater, Veolia, ZWEEC, Manila Water, etc.

Water & Wastewater Treatment Progress

 Water pumping station Measurement parameters level, flow, temperature, pH, turbidity, conductivity Products recommended Ultrasonic level transmitter MP-C Electromagnetic flowmeter LDG-SUP Thermal resistance SUP-WZPK Plastic electrode SUP-PH-7004 Turbidity electrode SUP-PTU-8011 Conductivity stainless steel electrode SUP-TDS-7001

B Dosing pool

Measurement parameters Liquid level, flow, pH Products recommended Ultrasonic level transmitter MP-C Electromagnetic flowmeter LDG-SUP Glass electrode SUP-PH-5022

4 Coagulation sedimentation tank

Measurement parameters Liquid level, flow, pH Products recommended 80G radar level transmitter SUP-RD1000 Electromagnetic flowmeter LDG-SUP Plastic electrode SUP-PH-7004

5 Filter pool

Measurement parameters Turbidity, sludge concentration Products recommended Turbidity electrode SUP-PTU-8011 Sludge concentration electrode SUP-PSS-9011

6 Clean water pool/Water storage tank

Measurement parameters liquid level Products recommended Ultrasonic level transmitter MP-C

2 Regulating pool Measurement

parameters Liquid level, flow, pH Products recommended Ultrasonic level transmitter MP-C Electromagnetic flowmeter LDG-SUP Glass electrode SUP-PH-5022

8 User waste water

Measurement parameters flow Products recommended Electromagnetic flowmeter LDG-SUP

Ap water treatment

Regulating pool

concentration Products recommended Ultrasonic level transmitter MP-C Electromagnetic flowmeter LDG-SUP Plastic electrode SUP-PH-7004

User water 7

Measurement parameters Flow, pH, Turbidity, Conductivity, Temperature, Free Chlorine Products recommended Electromagnetic flowmeter LDG-SUP Multi-parameter liquid analysis controller SUP-MDX500

Instrument Cloud is a smart instrument platform independently developed by Supmea using IoT, big data, and cloud computing. It can perform real-time operation and maintenance monitoring of instrument equipment through instrument cloud and data visualization, realize abnormal alarms, help enterprises reduce costs and increase efficiency through data recording and calculation.

Measurement parameters Liquid level, flow, pH, sludge

Turbidity electrode SUP-PTU-8011

Anoxic pool

Measurement parameters Turbidity, sludge concentration Products recommended Turbidity electrode SUP-PTU-8011 Sludge concentration electrode SUP-PSS-9011

Membrane bioreactor tank

Measurement parameters Liquid level, flow, temperature, pH, turbidity, Conductivity, dissolved oxygen Products recommended Ultrasonic level transmitter SUP-MP Electromagnetic flowmeter LDG-SUP Thermal resistance SUP-WZPK Plastic electrode SUP-PH-7004 Turbidity electrode SUP-PTU-8011 onductivity stainless steel electrode SUP-TDS-7001 uorescent Dissolved Oxygen Electrode SUP-DO-7018

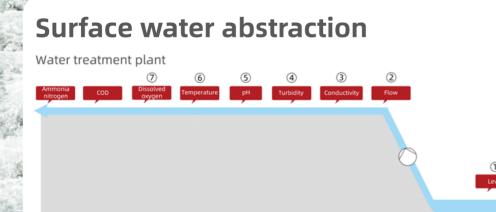


Disinfection pool

Measurement parameters Flow, residual chlorine, pH, turbidity Products recommended Open channel flowmeter SUP-LMO Residual chlorine meter SUP-TRC400 Plastic electrode SUP-PH-7004 Turbidity electrode SUP-PTU-8011



Product Recommendation



Surface water

08 /Customer-centered, striver-oriented

A State Stat





01 New millimeter-wave high accuracy 02 For viewing of data 80G radar level transmitter Remote type SUP-RD1000

Suitable for flow measurement in water treatment process

- 3° -5° extremely narrow beam angle and strong wave focusing ability, the detection blind zone is less than 200mm;
- · IP66 high-quality waterproof joints, suitable for complex working conditions with harsh environments;
- 4-digit LCD high-definition backlit liquid crystal display, the data are clearly visible under strong light or dim conditions.

Specifically designed for remote reading

- units are optional:

applications Visualized rectangular flow bar graph; • Real-time display of instant (Q value) and

- cumulative value:
- and anti-leakage;

04 For measuring turbidity Turbidity electrode SUP-PTU-8011 Suitable for raw water turbidity measurement in waterworks

- Accurate and reliable measurement results can be obtained within the value range of 0.01-4000NTU;
- Self-cleaning device, reducing sensor maintenance; Probe IP68 protection level, strong
- waterproof and dustproof, not afraid of harsh working conditions.

Use with the liquid analysis ontroller SUP-DC2000



- Accurate and reliable measurement results in the 0-14pH range;
- High-guality anti-interference lead wire, which can realize long-distance transmission of 60 meters;
- Extended sensor life.

ontroller SUP-PH6.5



electromagnetic flowmeter LDG-SUP

8 major international liquid measurement

• The lining is anti-shedding, anti-shedding

• DN10~DN2000 optional.

03 For Conductivity Measurement **Stainless Steel Electrode** SUP-TDS-7001

Meet the conductivity measurement needs of river sections, etc.

- Electrode constant: 0.01/01/1.0;
- Ingress protection: IP68;
- Pressure resistance: 5bar;
- Temperature resistance: 0-50° C;
- 316 high molybdenum corrosionresistant stainless steel, stable operation under severe working conditions.
- Use with SUP-TDS210-B, a conductivity meter with strong
- anti-interference ability

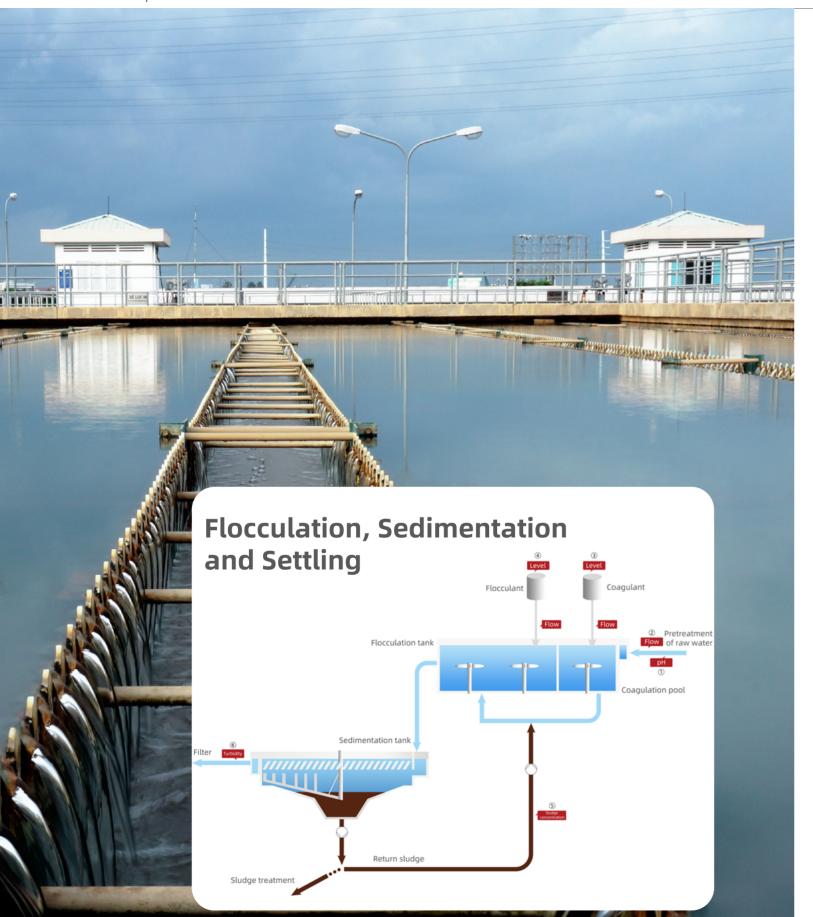


- High-performance PPS shell material,
- temperature-resistant, corrosion-resistant,
 - Use with a stable operating pH

06 Rapid response

Thermal resistance SUP-WZPK Meet the needs of temperature measurement in solution

- Integrated junction box structure, highefficiency waterproof and no fear of condensation to protect the internal circuit:
- JUMO chip imported from Germany, A-level precision guarantee, accurate and fast temperature measurement;
- With the temperature change module, it can output 4-20mA signal stably, and the remote transmission will not be delayed.







01 With excellent pressure resistance 02 High-end Glass electrode SUP-PH-5022

Suitable for continuous monitoring of pH in pretreated raw water

- JUMO HT glass, temperature-resistant up to 135° c and pressure-resistant up to 10 bar;
- PTFE ring-shaped diaphragm, polymerized solid electrolyte, greatly improves the service life, and is applicable to a wider range of working conditions.;
- Measuring range: 0-14pH;
- Mounting thread: PG13.5.



Use with a stable operating pH ontroller SUP-PH6.5

analyze and solve problems; DN10~DN2000 optional; Photovoltaic battery power supply optional.

time:





04 Remote type Ultrasonic liquid level transmitter SUP-ULS-B Provides accurate and reliable liquid level

measurement in the water industry

- Touch button + menu interface, simple and easy to use;
- · Designed for extreme working conditions, easily deal with corrosive gases;
- Integrated self-diagnosis function to make maintenance easier;
- Multi-working condition algorithm selection, stronger field adaptability;
- Precise control, 2 seconds response;
- Automatic temperature compensation, higher measurement accuracy.

05 Sludge concentration electrode SUP-PSS-9011 Suitable for raw water turbidity measurement in waterworks

- lamps; Self-cleaning device, reducing sensor maintenance;
 - 45000mg/L; 0.1-120000mg/L.



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Electromagnetic flowmeter FMC240

No need for grounding, used for process measurement such as dosing

- Compatible with the operation interface, saving users debugging and learning
- IP65 protection to ensure the stable operation of the machine and the safety of
- users in harsh environments;
- Self-diagnosis technology to help users



03 Intelligent compact ultrasonic Liquid level transmitter MP-C Suitable for continuous non-contact

level measurement in free space

- Intelligent algorithm, not afraid of liquid level disturbance, adapt to complex working conditions;
- Intelligent diagnosis, 2-inch backlit large screen, convenient key system,HD interactive;
- Intelligent temperature compensation, reducing temperature interference, accurate measurement in summer and winter



 LED light source detection technology, more stable, more durable and lower power consumption than traditional tungsten

• Measuring range: 0.1-20000mg/L; 0.5-

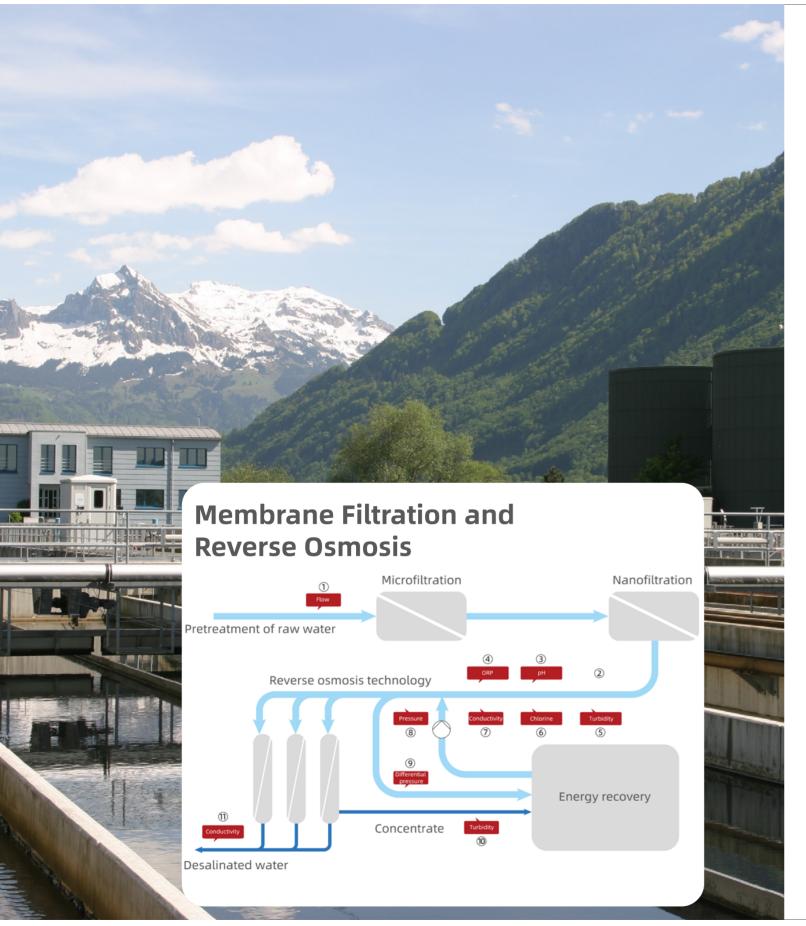
Use with the liquid analysis

06 For measuring turbidity Turbidity electrode SUP-PTU-8011 Measures the turbidity of sedimentation tank effluent

- Accurate and reliable measurement results can be obtained within the value range of 0.01-4000NTU;
- LED light source detection technology, more stable and durable than traditional tungsten lamps, lower power consumption:
- Self-cleaning device, reducing sensor maintenance.



Jse with the liquid analysis controller SUP-DC2000







01 With high accuracy and repeatability 02 Multi-parameter water **Turbine flowmeter LWGY-SUP** quality online analyzer MDX500

Measurement of volume flow of low viscosity liquids in closed pipes

- Upgraded SMART converter, 11 major international units can be switched with one key, convenient and reliable;
- Imported measuring chip with high
- accuracy and low pressure loss; Compatible with multiple media, accurate flow control;
- Precision machining, impact resistance, stability and high efficiency.

Applied to drinking water pipe network, secondary water supply etc.

- dissolved oxygen;
- range of < 1NTU;



油度在线分析仪 H.

05 For low turbidity conditions Turbidimeter SUP-PTU300 Meet the turbidity monitoring before filtration, after filtration, precipitation, etc.

- are optional, ±2%FS accuracy;
- Temperature resistance: 0-60° C.

Digital electrode SUP-ORP-8001

measurement in the filtration process

Accurate and reliable level

• Measuring range: ±1000.0mV;

Ingress Protection: IP68;

Accuracy: 0.5° C/0.2mV;

Jse with the liquid analysis controller SUP-DC2000

04 For measuring ORP

3rd generation laser light source technology, no external measuring probe required;

- transmission data, realize automatic control;

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 Simultaneously detect multiple parameters such as turbidity, residual chlorine/chlorine dioxide, pH, temperature, conductivity, ORP,

 Realize long-term stable and highprecision measurement within the turbidity

 Equipped with temperature control heating antifreeze module, it can run outdoors all year round in cold areas.



03 For pH measurement Plastic electrode SUP-PH-7004 Suitable for continuous monitoring of solution pH in the water industry

- Accurate and reliable measurement results in the 0-14pH range:
- High-quality anti-interference lead wire, which can realize long-distance transmission of 60 meters;
- High-performance PPS shell material, temperature-resistant, corrosionresistant,Extended sensor life.

| 0.33- | For use with the easy-to- |
|----------|------------------------------|
| <u> </u> | operate pH controller SUP-PH |
| | (CCEP version) |





0-1NTU\0-20NTU\0-100NTU three ranges

• Built-in RS485 modbus communication, centralized monitoring and remote

• Wall-mounted installation, simple and convenient, less manual maintenance.

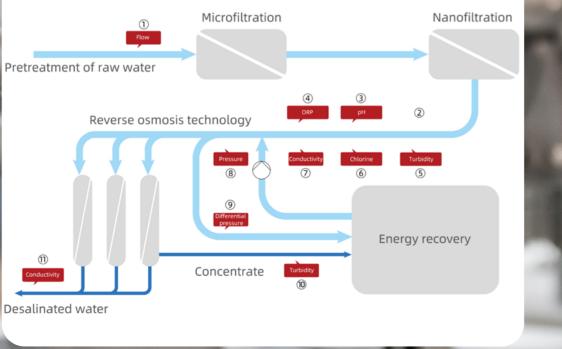
06 Fast-response Residual chlorine meter SUP-TRC400

Used to detect residual chlorine in the membrane treatment processes

- 7-inch color touch screen display, easy to set parameters and read data clearly;
- Microelectronic MEMS technology, compared with traditional sensors, MEMS has the competitive advantages of small size, light weight, low power consumption, and short response time;
- Multiple output modes compatible with various regulators: one (4~20mA) analog output, one 485 output.



Membrane Filtration and Reverse Osmosis







08 High-precision

harsh sites;

glance.

07 For Conductivity Measurement Stainless Steel Electrode SUP-TDS-7001

Meets the conductivity measurement needs of waterworks, etc.

- Cell constant: 0.01/0.1/1.0;
- Protection class: IP68;
- Pressure resistance: 5bar;
- Temperature resistance: 0-50° C; 316 high molybdenum corrosion-resistant

stainless steel, stable operation under harsh conditions.

50.00 interference ability

Use with conductivity meter SUP-TDS210-B with strong anti-



10 High-end Electromagnetic flowmeter FMC240

No need for grounding, used for process measurement such as dosing

- Compatible with the operation interface, saving users debugging and learning time;
- IP65 protection to ensure the stable operation of the machine and the safety of users in harsh environments;
- Self-diagnosis technology to help users analyze and solve problems;
- DN10~DN2000 optional;
- Photovoltaic battery power supply optional.



Electrode SUP-TDS-7003 Meets the conductivity measurement needs of water purification treatment

- Protection class: IP68;
- Pressure resistance: 3bar;

Use with conductivity meter SUP-TDS210-B with strong antiinterference ability



Measures water and other media incompatible with 316 stainless steel

- Double-sealed protective joints effectively isolate water vapor and dust and protect internal circuits; LCD high-definition display, data at a



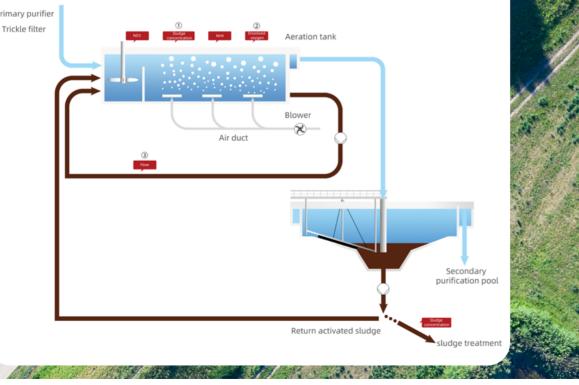
09 For precise pressure measurement Pressure transmitter SUP-2051 Measures water and other media incompatible with 316 stainless steel

- IP65 high protection level, not afraid of 0.075 grade imported chip, high precision, millisecond response speed;
 - Double overload protection diaphragm, unidirectional overvoltage up to 1166 times;
 - Tight waterproof connector, the protection level can reach IP67.

11 For conductivity measurement

• Measuring range: 0.1µS/cm-70mS/cm; • Temperature resistance: 0-80° C; • Mounting thread: G3/4 thread.

Biological water treatment







01 Sludge concentration electrode SUP-PSS-9011

Applied to primary settling tank, secondary settling tank, sludge thickening tank

- LED light source detection technology, more stable, more durable and lower power consumption than traditional tungsten lamps;
- Self-cleaning device, reducing sensor maintenance;
- Measuring range: 0.1-20000mg/L; 0.5-45000mg/L; 0.1-120000mg/L.

Use with the liquid analysis controller SUP-DC2000 6.51,

6.51,ontroller SUP-DC2000

temperature: ±0.2° C;



04 Remote type Ultrasonic liquid level transmitter SUP-ULS-B Provides accurate and reliable liquid level measurement in the water industry

- Touch button + menu interface, simple and easy to use;
- Designed for extreme working conditions, easily deal with corrosive gases;
- Integrated self-diagnosis function to make maintenance easier;
- Multi-working condition algorithm selection, stronger field adaptability;
- Precise control, 2 seconds response;
- Automatic temperature compensation, higher measurement accuracy.

16 /Customer-centered, striver-oriented



02 For measuring dissolved oxygen Electrode SUP-DO-7019

Applied to aeration tanks, aerobic/ anaerobic digesters, factory water

• Measuring range: dissolved oxygen: 0-20mg/L or saturation: 0-200%; Temperature: 0-50° C; Accuracy: dissolved oxygen: ±0.3mg/L; Sensor temperature drift: < 1%, year; response; • Support RS485, MODBUS protocol. automation; Use with the versatile water quality cost.

03 Thermal gas mass flowmeter SUP-MF

Measure Common Steady State Gases

- Accurate measurement at gas flow rates up to 120Nm/s to 0.1Nm/s;
- Constant temperature difference measurement, without temperature and pressure compensation, 1 second
- RS485 communication, HART protocol, 4-20mA analog signals, realize
- Easy installation and low maintenance

Applications



Information Automation Project of Rural Domestic Water Source River Water Replacement Project in Dingxing County, Baoding City, Hebei Province

Selected product: MDX500 multi-parameter water quality online analyzer Customer evaluation: Rich experience in the industry, highly professional after-sales service. The product runs stably, The data of each parameter conforms to the standard and meets the data requirements of remote detection



Laobao Water Plant and Crescent Water Plant in Sanjiang Dong Autonomous County, Xuanwei City, Yunnan Province



Safe drinking water improvement and renovation project for an old community in A Town, Yijinhuoluo Banner, Ordos City, Inner Mongolia Autonomous Region

Selected product: MDX500 multi-parameter water quality online analyzer **Customer Evaluation:** Products and services are trustworthy. The system runs stably, and the accuracy meets the requirements. It can implement remote monitoring of tap water quality-related parameters to ensure the safety of drinking water for the people. The application has achieved remarkable results.



Plant

Selected products: SUP-ULS-B split type ultrasonic liquid level gauge, MP-C integrated ultrasonic liquid level gauge, SUP-PTU300 flow-through turbidimeter, SUP-PH7004 pH plastic case electrode, SUP DO7019 fluorescence method dissolved oxygen electrode ,SUP-PSS9011 sludge concentration electrode

Customer evaluation: The after-sales service responds guickly, the on-site guidance is professional, and the product quality is good.

Chongqing Luoqi Kitchen Sewage Treatment

- Selected product: LDG-SUP electromagnetic flowmeter
- Customer evaluation: High product quality, good service. In the future, we will further strengthen cooperation with Supmea

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