Supmea

3.94 рн

CSS CRAW COM @

Supmea

3.94 рн

BO DE LOW O

725.01

10.00

# Liquid analysis

• pH sensor and controller

3

- EC sensor and controller
- Dissolved oxygen sensor and controller
- Turbidity sensor and controller
- TSS/SS sensor and controller
- Multi-parameter controller
- Chlorine sensor and controller



Supmea

3.94 рн

CT D TOT D TOT

H25. U

LOW

Liquid analysis 06

dimension(mm)

# Liquid analysis

# Controller performance parameter

Supmea
н <u>из отс</u> 8.50mA 3.94 рн
<b>AVAV</b> 







Performance parameters	Universal controller	pH controller	pH controller	Conductivity controller	
Model	MDA-U1	MDA-PH	SUP-PH(CCEP)	MDA-EC	
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	ΩΩ, ±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	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>	



Spece Sub-parameter controller	Residual chlorine controller
500	SUP-TRC400
	8kg
	IP43
idity(0~1NTU / 0~20NTU / ONTU / 0~4000NTU) dual chlorine/Chlorine ide mg/L/0~20mg/L) oerature(0~50°C ) ORP(0~14pH,±2000mV) onal) ductivity(0~2000uS/cm) tional) olved oxygen(0~20mg/L) tional)	Residual chlorine(0~5mg/L) Temperature(0.1~40.0°C )
	-
	0.01
	-
AC±10%, (50±1)Hz	220VAC±10%, (50±1)Hz
0)℃ / (-25~+50)℃ onal temperature control ing antifreeze module)	(0~40)°C (No condensation)
%RH(No condensation)	≤ 95%RH(No condensation)

# Controller performance parameter

# SUP-PH (CCEP) pH/ORP controller

### INTRODUCTION

SUP-PH (CCEP) controller is an intelligent online chemical analysis instrument, widely used in metallurgy, 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.

(0

25.0°C

## FEATURES



Can set the recording interval for the data,Range: 00:00:01~23:59:59

# Parameter

6

SUP-PH (CCEP) pH/ORP 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			

# INTRODUCTION

MDA-PH/ORP controller 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.



# Parameter

	MDA-PH pH/C	DRP
Measuring range	pH: 0.00~14.00pH ORP: -1000mV~+1000mV/-2000mV~+2000m	V (
Storage conditions	Temperature: -15°C ~65°C Relative humidity: 5%RH~95%RH (No condensation) Altitude: <2000m	A
Temperature compensation	NTC10K: -10℃ ~60℃ Accuracy ±0.3℃ ,60℃ - PT1000: Accuracy ±0.3℃ ,-10℃ -130℃ man	130 ual
Power supply	220VAC±10%, 50Hz/60Hz	

# **MDA-PH pH/ORP controller**

P controller	
(optical)	
Accuracy	pH: ±0.02pH,ORP: ±1mV
30°C Accuracy = al/automatic	⊧2°C

# **MDA-EC Conductivity controller**

## INTRODUCTION

MDA-EC 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.

F	EATURES	
1	(4~20) mA isolated transmission output, which is less affected by interference	
2	RS485 communication(MODBUS- RTU protocol)	Supmea
3	Isolating transmitting output, with little interference	H25.0°C 8.
4	Manual and auto temperature compensation	<b>50.00</b>
6	High/low alarm (relay)	HIGH
6	Buzzer/LCD backlight switch	



# **Parameter**

MAD-EC Conductivity controller						
Accuracy	±2%FS <b>Alarm</b> 2 relay, AC250V/ 3A					
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.)					

# **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.

F	EATURES
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-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** Simultaneously monitoring multiple Ø parameters such as turbidity, pH, temperature, etc. High-precision measurement, long-term stable and accurate 2 measurement on the order of 0.001~0.1NTU and 0.1~1NTU With a self-protection device, can effectively avoid equipment damage B caused by accidents and lightning strikes Multi-parameter controller Low operation and maintenance costs, support remote control 4 functions such as automatic sewage discharge and remote adjustment Strong environmental adaptability, optional temperature control heating 6 antifreeze module, can run outdoors all year round in cold regions **APPLICATIONS** Industrial water treatmen eline network Supmea Committed to process automation solutions

# 1

Paramete	r					
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℃	/	/
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	$T \le 120s$ Measured value $0 \sim 90\%$ 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**

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

Swimming pool

Secondary water supply

★ Indicates that the model has this parameter

# **Liquid Analysis**

Sensor performance parameter							
Performance	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	10ΚΩ 2.252ΚΩ Pt100 Pt1000	Optional		
Temperature range	0~80°C	0~130℃	0~100°C	0~80°C	0~135℃		
Pressure resistance	≤0.3MPa	≤ 0.25MPa	≤0.4MPa	≤0.3MPa	≤ 1.0MPa		
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)		

pH sensor	pH sensor	ORP sensor
SUP-PH-7001	SUP-PH-7003	SUP-ORP-6041
0~14pH	2~12pH	±1999mV
Optional	NTC10K PT100 PT1000	245~270mV
0~80°C	5~80°C	5~60°C
≤ 0.2MPa	≤ 0.6MPa	≤ 0.4MPa
3/4NPT	3/4NPT	PG13.5mm
PPS	PPS	Glass
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
5m standard (customizable)	5m standard (customizable)	5m standard (customizable)

Sensor performance parameter					
ORP sensor	EC sensor	EC sensor			
SUP-ORP-6050	SUP-TDS-7001	SUP-TDS-7003			
-2000~2000mV	0.01~20 / 0.1~200 1~2000µs/cm (optional)	0.1us/cm ~70ms/cm			
245~270mV (Measured at 15~30℃ ) 256mV Calibration fluid	NTC10K PT100 PT1000 NTC2.252K	Optional			
0~80°C	0~50°C	0~80°C			
≤ 0.6MPa	≤ 5bar (Electrode constant 0.01, 0.1) ≤ 7bar (Electrode constant 1.0)	≤ 0.3MPa			
3/4NPT	3/4G, 3/4NPT(optional)	3/4G, 3/4NPT(optional)			
PPS	304 SS, 316 SS	PPS, POM, Graphite			
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)			

# **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℃ /0.2mV	±2.5%	1.5%FS

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

# INTRODUCTION

MDA-U1 universal controller is a general-purpose controller for water quality, suitable for use with various water guality series digital sensors of our company. It is used to monitor water guality 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.



# **APPLICATIONS**





Water and wastewater treatment

# **MDA-U1** Universal controller



Dosage monitoring

Process agricultural water