



Datasheet Residual chlorine meter SUP-TRC/ERC400





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Datasheet

Residual chlorine meter SUP-TRC/ERC400

The residual chlorine meter has a built-in sensor, which has the characteristics of high measurement accuracy, fast response time and low maintenance cost. The residual chlorine meter outputs 4~20mA standard signal and RS485 signal, which can be connected to various regulators, and can be connected to two-position regulators, time proportional regulators, non-linear regulators and classic PID regulators according to requirements, which can be combined into various types. Residual chlorine control system.

Applications

- Secondary water supply
- Tap water
- Pool water
- Water works
- Agricultural drinking water



Features

- The electrode measurement is accurate and the response speed is fast
- LCD with backlight, easy and intuitive operation
- With automatic temperature compensation, pH manual compensation function
- Restore factory function to avoid data loss by misoperation
- Isolated 4-20mA standard signal can realize signal remote transmission
- Range can be switched manually
- A variety of calibration methods are convenient for on-site adjustment

Residual chlorine meter







Parameters

Residual chlorine meter	
Display	7 inch touch screen
Protective box size	Dimensions: 400mm×300mm×200mm Window size: 155mm×87mm
Measuring range	Residual chlorine: (0~5) mg/L Temperature: (0.1~40.0)℃
Transmit output	(4~20)mA (optional)
Communication	MODBUS RS485
Load Resistance	≤750Ω
Environment humidity	≤95% no condensate
Power supply	220VAC
Ingress protection	IP43

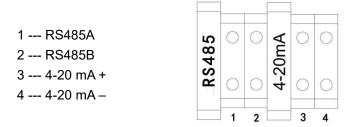
Measurement contentHCLO. CLO2measuring systemMicroelectronics MEMS technology, special membrane structureMeasuring range(0~5) mg/LAccuracyWhen \$0.1mg/L, the absolute error is ±0.01mg/L; When \$0.1mg/L, ±5% of the measured value or ±0.02mg/L (whichever is greater)Resolution0.01Polarization timeEess than 30s after polarization is completedMinimum conductivity≥100us/cm, can not be used for ultrapure waterOperating temperature(0~40)°C (non-condensing)Temperature compensationPt1000 with built-in integrated automatic compensationMax pressure4barRecommended flow rate\$0.03m/s in flow cellPower supplyStandard 24V DC±2V; optional 12V DC±2VPower consumption1.56WDigital communicationMODBUS RS485Cable length210gProbe weight210gThread sizeNPT 3/4Konnection method\$-pin waterproof aviation plugMoisture-proof material\$-pin waterproof aviation plug	Residual chlorine electrode	
Measuring range $(\circ-5)$ mg/LAccuracyWhen ≤ 0.1 mg/L, the absolute error is ± 0.01 mg/L; When ≥ 0.1 mg/L, $\pm 5\%$ of the measured value or ± 0.02 mg/L (whichever is greater)Resolution0.01Polarization timeWhen using for the first time, first pass water for 2 hours in chlorinated water, and then power on for half an hour.Response timeLess than 30s after polarization is completedMinimum conductivity ≥ 100 us/cm, can not be used for ultrapure waterOperating temperature $(\circ-40)$ °C (non-condensing)Temperature compensationPt1000 with built-in integrated automatic compensationMax pressure4barRecommended flow rate ≥ 0.03 m/s in flow cellPH range $(5~9)$ pH, below 5 will damage the membrane headMaximum chlorine concentration $\ge 5ppm$ Power consumption1.56WDigital communicationMODBUS RS485Cable lengthStandard 3 meters, others can be customizedProbe weight210gThread sizeNPT 3/4Connection method $5-pin$ waterproof aviation plug	Measurement content	HCLO、CLO2
AccuracyWhen $\leq 0.1 mg/L$, the absolute error is $\pm 0.01 mg/L$; When $\geq 0.1 mg/L$, $\pm 5\%$ of the measured value or $\pm 0.02 mg/L$ (whichever is greater)Resolution0.01Polarization timeWhen using for the first time, first pass water for 2 hours in chlorinated water, and then power on for half an hour.Response timeLess than 30s after polarization is completedMinimum conductivity $\geq 100 us/cm$, can not be used for ultrapure waterOperating temperature $(0\sim 40)^{\circ}C$ (non-condensing)Temperature compensationPt1000 with built-in integrated automatic compensationMax pressure4barRecommended flow rate $\geq 0.03m/s$ in flow cellPH range $(5\sim 9)$ pH, below 5 will damage the membrane headMaximum chlorine concentration $\geq 5ppm$ Power supplyStandard 24V DC $\pm 2V$; optional $12V$ DC $\pm 2V$ Power consumption1.56WDigital communicationMODBUS RS485Cable lengthStandard 3 meters, others can be customizedProbe weight210gThread sizeNPT $3/4$ Connection method 5 -pin waterproof aviation plug	measuring system	Microelectronics MEMS technology, special membrane structure
AccuracyWhen ≥0.1mg/L, ±5% of the measured value or ±0.02mg/L (whichever is greater)Resolution0.01Polarization timeWhen using for the first time, first pass water for 2 hours in chlorinated water, and then power on for half an hour.Response timeLess than 30s after polarization is completedMinimum conductivity≥100us/cm, can not be used for ultrapure waterOperating temperature(0~40)°C (non-condensing)Temperature compensationPt1000 with built-in integrated automatic compensationMax pressure4barRecommended flow rate≥0.03m/s in flow cellPH range(5~9) pH, below 5 will damage the membrane headMaximum chlorine concentration≥5ppmPower supplyStandard 24V DC±2V; optional 12V DC±2VPower consumption1.56WDigital communicationMODBUS RS485Cable lengthStandard 3 meters, others can be customizedProbe weight210gThread sizeNPT 3/4Connection method5-pin waterproof aviation plug	Measuring range	(0~5) mg/L
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Polarization timewater, and then power on for half an hour.Response timeLess than 30s after polarization is completedMinimum conductivity>100us/cm, can not be used for ultrapure waterOperating temperature(0~40)°C (non-condensing)Temperature compensationPt1000 with built-in integrated automatic compensationMax pressure4barRecommended flow rate>0.03m/s in flow cellpH range(5~9) pH, below 5 will damage the membrane headMaximum chlorine concentration>5ppmPower supplyStandard 24V DC±2V; optional 12V DC±2VPower consumption1.56WDigital communicationMODBUS RS485Cable lengthStandard 3 meters, others can be customizedProbe weight210gThread sizeNPT 3/4Connection method5-pin waterproof aviation plug	Resolution	0.01
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Max pressure4barRecommended flow rate≥0.03m/s in flow cellpH range(5~9) pH, below 5 will damage the membrane headMaximum chlorine concentration≥5ppmPower supplyStandard 24V DC±2V; optional 12V DC±2VPower consumption1.56WDigital communicationMODBUS RS485Cable lengthStandard 3 meters, others can be customizedProbe weight210gThread sizeNPT 3/4Connection method5-pin waterproof aviation plug	Operating temperature	(0~40)℃ (non-condensing)
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Maximum chlorine concentration≥5ppmPower supplyStandard 24V DC±2V; optional 12V DC±2VPower consumption1.56WDigital communicationMODBUS RS485Cable lengthStandard 3 meters, others can be customizedProbe weight210gThread sizeNPT 3/4Connection method5-pin waterproof aviation plug	Recommended flow rate	≥0.03m/s in flow cell
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Digital communicationMODBUS RS485Cable lengthStandard 3 meters, others can be customizedProbe weight210gThread sizeNPT 3/4Connection method5-pin waterproof aviation plug	Power supply	Standard 24V DC±2V; optional 12V DC±2V
Cable lengthStandard 3 meters, others can be customizedProbe weight210gThread sizeNPT 3/4Connection method5-pin waterproof aviation plug	Power consumption	1.56W
Probe weight210gThread sizeNPT 3/4Connection method5-pin waterproof aviation plug	Digital communication	MODBUS RS485
Thread size NPT 3/4 Connection method 5-pin waterproof aviation plug	Cable length	Standard 3 meters, others can be customized
Connection method 5-pin waterproof aviation plug	Probe weight	210g
	Thread size	NPT 3/4
Moisture-proof material PVC and Viton® O-ring seals	Connection method	5-pin waterproof aviation plug
	Moisture-proof material	PVC and Viton® O-ring seals





Wiring

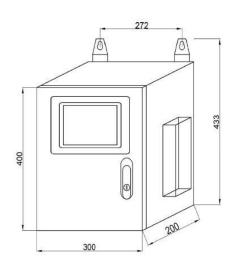
Residual chlorine meter wiring definition

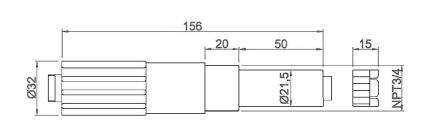


Sensor Wiring Definition

Core number	1	2	3	4	5
Sensor wire	Red	Black	Yellow	Green	White
Signal	+24VDC	-24VDC	RS485 A	RS485 B	Ground wire

Dimension





Unit: mm





Ordering code

SUP-TRC400 -RT1-O0-D1-I1-V1										Description				
SUP-TRC400	-	-	-	-	-	-	-	-	-	-	-	-	Description	
Туре	RT1												(0~5) mg/L	
O0 Transmit output												No		
Transmit ot	lipui	O1											(4~20) mA	
Communication		D1										RS485		
Relay output			A2									2 relay outputs		
Power supply			V1								220VAC(140~240VAC)			

SUP-ERC400 -ST1-C1-D1-V1-CS3										Description	
SUP-ERC400 -	-	-	-		-	-	-	-	-	-	Description
Type ST1											Compact type
Compensation Type	C1										PT1000 temp compensation
Communication	l	D1									RS485
Power supply			V1								24VDC (22~26VDC)
			V3								12VDC (10~14VDC)
Power supply				CS3							3m
				CSXX							XXm





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