Remond water quality analysis instrumentation hardware used the precision electronic components, strong anti-interference and reliable stable patent integrated circuit design, which are widely used in aerospace,automotive, military and high-tech fields, simple operation and rich interface software instrumentation system, make the detection signal is more accurate and stable, the current products have been widely used in metallurgy, electronic power,pharmaceutical, chemical, oil, water treatment, food and other industries.
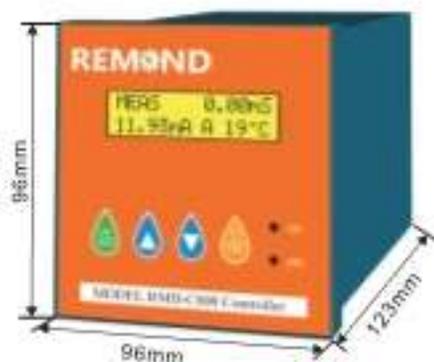
Features

- LCD display with backlight, English operation interface.
- Calibration and setting can set cryptoguard.
- Technical parameters can be set with buttons on site.
- High stability , high accuracy, can measure conductivity and temperature.
- Temperature compensation.
- Multiple output (2 relays,4~20mA,RS485).
- Supper anti-interference design can be for strong interference with field operations and anti-electromagnetic interference.
- The built-in memory chip ensures that the parameters and calibration data are not lost when shut down or off normally.
- Can automatically detect the temperature probe and enter the automatic temperature compensation program.
- Application: Ultra-pure water, circulating water, boiler water, industrial processes and other industries, etc.

Technical parameter

Conductivity:	Measuring range: 0.00uS/cm~20.00mS/cm
	Resolution: 0.01uS/cm-0.01 mS/cm
	Accuracy: ±0.5% FS
	Constant: K~0.01,0.1,1.0,10.0
	Reference Temp.: 15.0-25.0℃
TDS:	Measuring range: 0.00-20.00ppt
	Resolution: 0.01 ppt
	Accuracy: ±0.5% FS
	TDS Factor: 0.40-1.0
Temperature:	Measuring range: -25~130℃
	Resolution: 0.1℃
	Accuracy: ±0.2℃
	Temperature Sensor: NTC10K
	TEMP.Compensation: Automatic/Manual
Signal Output/ load:	Signal Output: 4-20 mA (Adjustable)
	Current Accuracy: ±1% FS
	Load: < 750 Ω
Relay Output:	On/Off: 2 SPST Relays
	Output: 5A 230 VAC/5A 30VDC
Data interface:	RS485(Optional)
	Compatible with standard MODBUS-RTU
Others:	Power: 24 VDC OR 100...240VAC
	Working Temperature: 0-60℃
	Humidity: < 90%
	Protection grade: IP55
	Installation: Panel Mounting
	Dimensions: 96*96*123mm(H*W*D)
	Hole size: 91*91mm
	Weight: 0.5 kg

Front dimension drawing

Hole size: 91mm x 91mm

Side dimension drawing
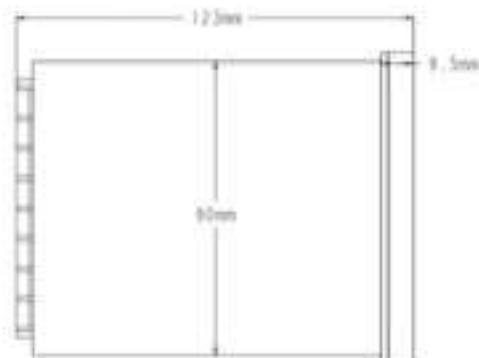

Side dimension drawing

Wiring diagram
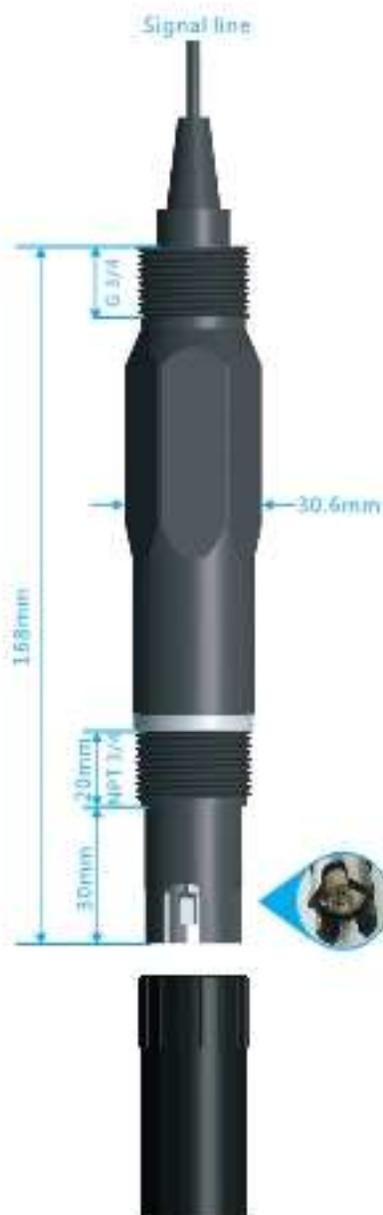
High alarm 1
High alarm 2
Low alarm 1
Low alarm 2
RS485 -
RS485 +
4...20mA -
4...20mA +

Temperature Compensation (10K)
EC Sensor
EC Sensor
220V power supply
220V power supply

wiring diagram

Signal line

30.6mm

G 3/4

168mm

20mm NPT 3/4

30mm

EC Sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination,circulating water and other water treatment equipment

Model	RMD-CF-1

Specification	
Measuring range	0...2000μS/cm
Constant	$K=1.0cm^{-1}$
Temperature measure range	0℃~60℃
Temperature sensor	NTC10K
	Optional PT100, NTC10K, NTC2.252K

Pressure range	0...4bar
Shell material	PPS
Process connection thread	3/4
Signal line length (m)	5 m,10m or customize
Electrical connection	Pin type
	Optional BNC connector
Remarks	

Signal line

EC Sensor

Application

Water treatment,tap water,surface water,industrial water
,reverse osmosis,seawater desalination,circulating water
and other water treatment equipment

Model	RMD-CA-1

Specification	
Measuring range	0...2000µS/cm
Constant	K=1.0cm⁻¹
Temperature measure range	0℃–60℃
Temperature sensor	NTC10K
	Optional PT100, NTC10K, NTC2.252K

Pressure range	0...4bar
Shell material	PC
Process connection thread	NPT1/2
Signal line length (m)	5 m,10m or customize
Electrical connection	Pin type
	Optional BNC connector
Remarks	

18mm NPT1/2

←—14mm

130mm

73mm

Signal line
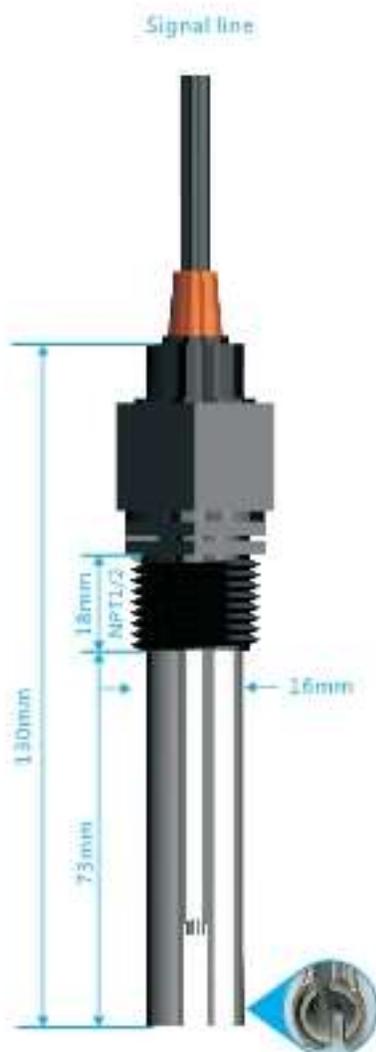
EC Sensor

Application

Water treatment,tap water,surface water,industrial water
,reverse osmosis,seawater desalination,circulating water
and other water treatment equipment

Model	RMD-CB-1

Specification	
Measuring range	0...2000µS/cm
Constant	K=1.0cm^{-1}
Temperature measure range	0℃~60℃
Temperature sensor	NTC10K
	Optional PT100, NTC10K, NTC2.252K

|	
Pressure range	0...4bar
Shell material	PC,316L
Process connection thread	NPT1/2
Signal line length (m)	5 m,10m or customize
Electrical connection	Pin type
	Optional BNC connector
Remarks	

130mm

73mm

18mm

NPT1/2

16mm

Signal line
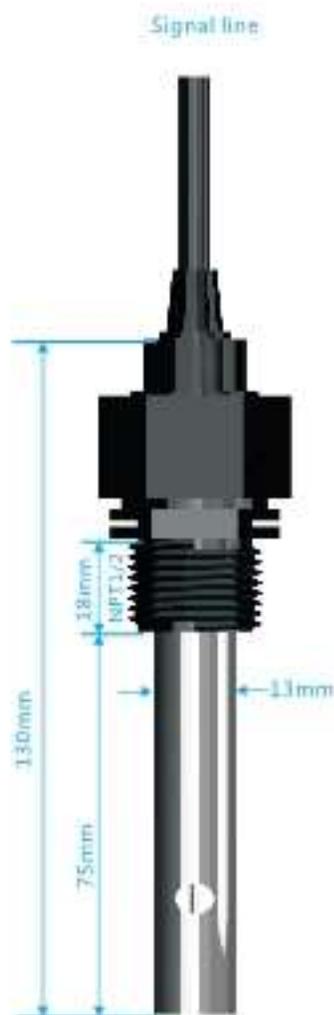
EC Sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination,circulating water and other water treatment equipment

Model	RMD-CB-01

Specification	
Measuring range	0...200µS/cm
Constant	K=0.1cm⁻¹
Temperature measure range	0°C–80°C
Temperature sensor	NTC10K
	Optional PT100, NTC10K, NTC2.252K

Pressure range	0...8bar
Shell material	316L
Process connection thread	NPT1/2
Signal line length (m)	5 m,10m or customize
Electrical connection	Pin type
	Optional BNC connector
Remarks	

Signal line

EC Sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination,circulating water and other water treatment equipment

145mm

18mm NPT1/2

12.8mm

100mm
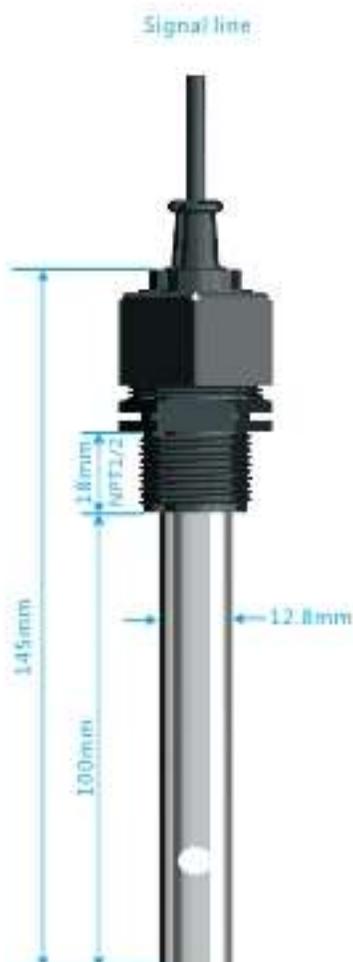
Model	RMD-CB-2

Specification	
Measuring range	0...2000µS/cm
Constant	K=1.0cm^{-1}
Temperature measure range	0°C~80°C
Temperature sensor	NTC10K
	Optional PT100, NTC10K, NTC2.252K

| Pressure range	0...8bar
Shell material	316L
Process connection thread	NPT1/2
Signal line length (m)	5 m,10m or customize
Electrical connection	Pin type
	Optional BNC connector
Remarks	

Signal line

165mm

110mm

18mm
NPT1/2

12.8mm
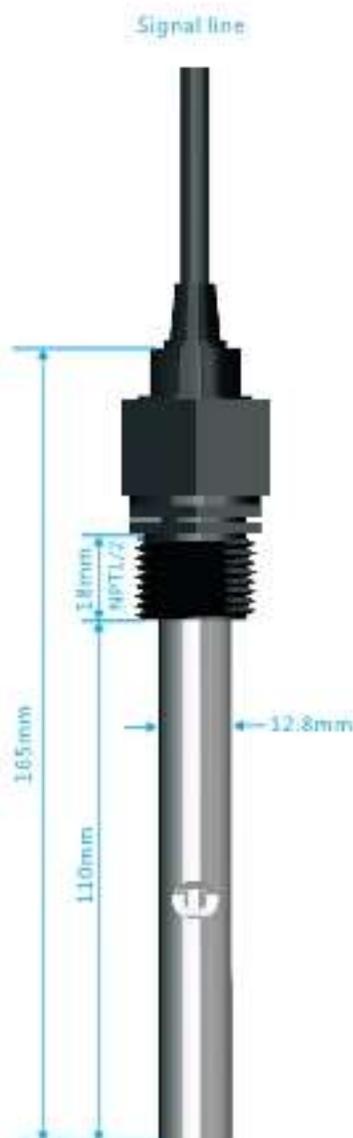
EC Sensor

Application

Water treatment,tap water,surface water,industrial water
,reverse osmosis,seawater desalination,circulating water
and other water treatment equipment

Model	RMD-CB-02

Specification	
Measuring range	0...2000µS/cm
Constant	K=1.0cm⁻¹
Temperature measure range	0°C−80°C
Temperature sensor	NTC10K
	Optional PT100, NTC10K, NTC2.252K

Pressure range	0...8bar
Shell material	316L stainless steel
Process connection thread	NPT1/2
Signal line length (m)	5 m,10m or customize
Electrical connection	Pin type
	Optional BNC connector
Remarks	

Signal line

EC Sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination,circulating water and other water treatment equipment

Model	RMO-CB-05

Specification	
Measuring range	0...2000µS/cm
Constant	$K=1.0cm^{-1}$
Temperature measure range	0°C~80°C
Temperature sensor	NTC10K
	Optional PT100, NTC10K, NTC2.252K

Pressure range	0...8bar
Shell material	316L stainless steel
Process connection thread	NPT3/4
Signal line length (m)	5 m,10m or customize
Electrical connection	Pin type
	Optional BNC connector
Remarks	

150mm
104mm
17mm
NPT3/4
14mm

Signal line

12.8mm

165mm

110mm

18mm
NPT1/2

EC Sensor

Application

Water treatment,tap water,surface water,industrial water
,reverse osmosis,seawater desalination,circulating water
and other water treatment equipment

Model	RMD-CB-001

Specification	
Measuring range	0...20µS/cm
Constant	K=0.01cm^{-1}
Temperature measure range	0°C~80°C
Temperature sensor	NTC10K
	Optional PT100, NTC10K, NTC2.252K

| Pressure range	0...8bar
Shell material	316L stainless steel
Process connection thread	NPT1/2
Signal line length (m)	5 m,10m or customize
Electrical connection	Pin type
	Optional BNC connector

Remarks	

Signal line
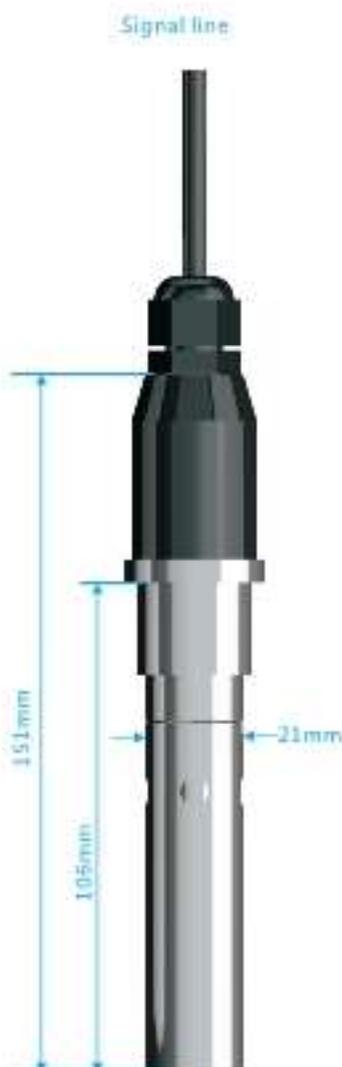
EC Sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination,circulating water and other water treatment equipment

Model	RMD-CG-001

| Specification	
Measuring range	0....20µS/cm
Constant	K=0.01cm⁻¹
Temperature measure range	0°C~100°C
Temperature sensor	NTC10K
	Optional PT100, NTC10K, NTC2.252K

Pressure range	0...10bar
Shell material	316L stainless steel
Signal line length (m)	5 m,10m or customize
Electrical connection	Pin type
	Optional BNC connector
Remarks	

151mm

105mm

21mm

Signal line
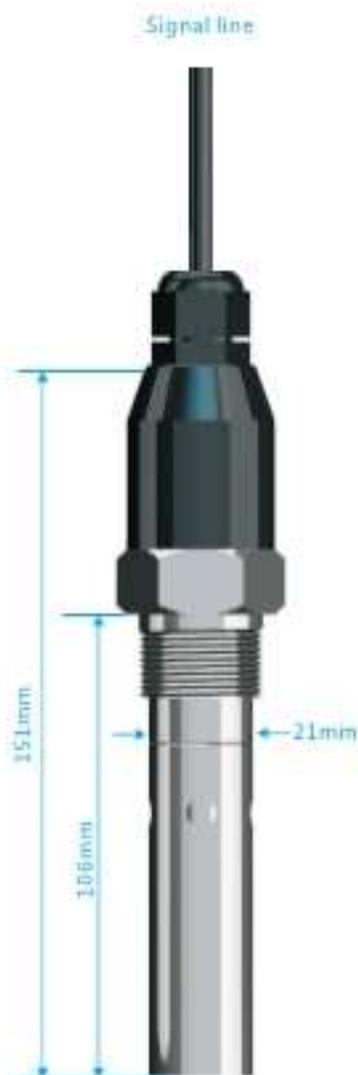
EC Sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination,circulating water and other water treatment equipment

Model	RMD-CG-01

Specification	
Measuring range	0...200µS/cm
Constant	$K=0.1cm^{-1}$
Temperature measure range	0°C–100°C
Temperature sensor	NTC10K
	Optional PT100, NTC10K, NTC2.252K

Pressure range	0...10bar
Shell material	316L stainless steel
Process connection thread	NPT3/4
Signal line length (m)	5 m,10m or customize
Electrical connection	Pin type
	Optional BNC connector

Remarks	

151mm
106mm
21mm

Signal line

12.8mm

165mm

110mm

18mm

NPT1/2
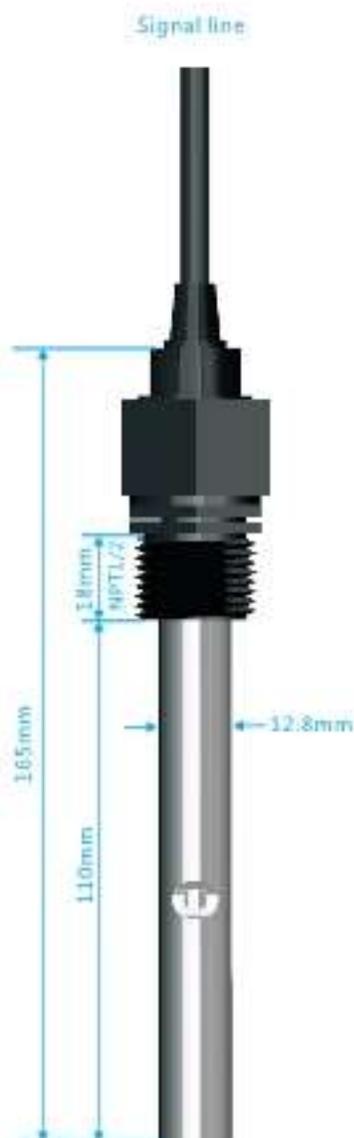
EC Sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination,circulating water and other water treatment equipment

Model	RMD-CB-10

Specification	
Measuring range	10µS/cm...20mS/cm
Constant	K=10cm^{-1}
Temperature measure range	0°C–80°C
Temperature sensor	NTC10K
	Optional PT100, NTC10K, NTC2.252K

| Pressure range	0...8bar
Shell material	316L stainless steel
Process connection thread	NPT1/2
Signal line length (m)	5 m,10m or customize
Electrical connection	Pin type
	Optional BNC connector

Remarks

Signal line

EC Sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination,circulating water and other water treatment equipment

Model	RMD-CN-1

Specification	
Measuring range	0...2000μS/cm
Constant	K=1.0cm⁻¹
Temperature measure range	0°C~60°C
Temperature sensor	NTC10K
	Optional PT100, NTC10K, NTC2.252K

Pressure range	0...4bar
Shell material	ABS
Process connection thread	M39*1.5
Signal line length (m)	5 m,10m or customize
Electrical connection	Pin type
	Optional BNC connector
Remarks	

Signal line

- L+
- RS485A
- RS485B
- 4...20mA
- L-

G 3/4

30.6mm

168mm

20mm NPT 3/4

30mm

Intelligent EC sensor

Application

Water treatment,tap water,surface water,industrial water,reverse osmosis,seawater desalination,circulating water and other water treatment equipment

Model	RMD-ISEP105
Specification	
Measuring range	0...2000μS/cm
Constant	K=1.0cm⁻¹
Temperature measure range	0.0...60.0℃
Resolution	0.1℃
Accuracy	±0.3 ℃
Temperature compensation	Automatic/Manual
Output	
Current signal output	4...20mA
	(Adjustable/three-wire)
Accuracy	1%FS
Load	< 500 Ω
Data communication	Rs485(MODBUS-RTU)
Other	DC9..30V (recommend DC12V)
Power supply	
Humidity	< 90%
Shell material	PPS
Thread	3/4
Cable length	5m signal line
Protection grade	Ip68
Electrical connection	Pin type
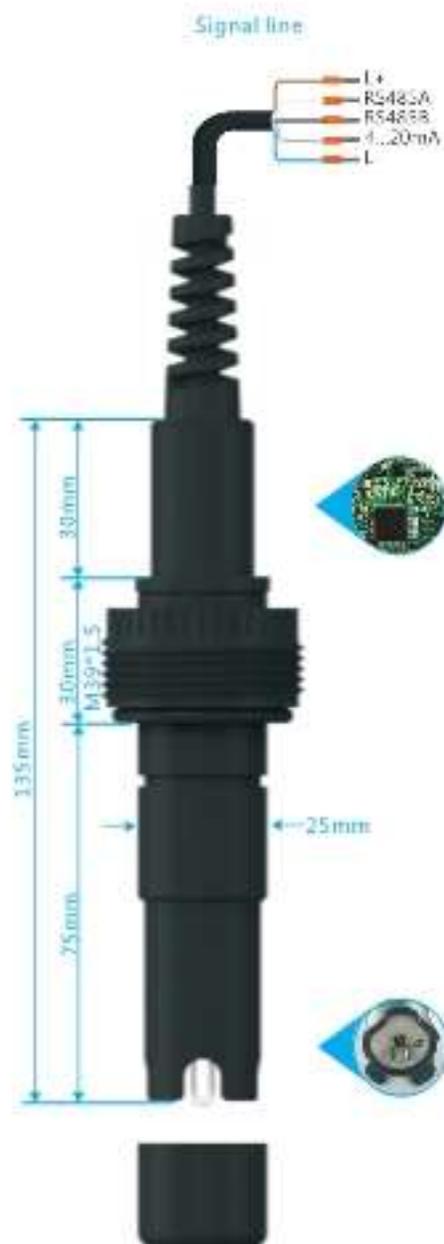
Signal line

L+
RS485A
RS485B
4...20mA
L

Intelligent EC sensor

Application

Water treatment,tap water,surface water,industrial water
,reverse osmosis,seawater desalination,circulating water
and other water treatment equipment

Model	RMD-ISEC205
Specification	
Measuring range	0...2000µS/cm
Constant	K=1.0cm^{-1}
Temperature measure range	0.0...60.0℃
Resolution	0.1℃
Accuracy	±0.3 ℃
Temperature compensation	Automatic/Manual
Output	
Current signal output	4...20mA
	(Adjustable/three-wire)
Accuracy	1%FS
Load	< 500 Ω
Data communication	Rs485(MODBUS-RTU)
Other	DC9..30V (recommend DC12V)
Power supply	
Humidity	< 90%
Shell material	ABS
Thread	M39*1.5
Cable length	5m signal line
Protection grade	Ip68
Electrical connection	Pin type

Dimensions: 135mm, 30mm, 30mm, M39*1.5, 25mm, 75mm

M12 connector

30mm

M39*1.5

30mm

135mm

←25mm

75mm

Intelligent EC sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination,circulating water and other water treatment equipment

Model	RMD-ISEC2M12
Specification	
Measuring range	0...2000μS/cm
Constant	K=1.0cm⁻¹
Temperature measure range	0.0...60.0℃
Resolution	0.1℃
Accuracy	±0.3 ℃
Temperature compensation	Automatic/Manual

Output	
Current signal output	4...20mA
	(Adjustable/three-wire)
Accuracy	1%FS
Load	< 500 Ω
Data communication	Rs485(MODBUS-RTU)

Other	DC9..30V (recommend DC12V)
Power supply	
Humidity	< 90%
Shell material	ABS
Thread	M39*1.5
Cable length	1m signal line
Protection grade	Ip68
Electrical connection	Pin type

Signal line

Intelligent EC sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination,circulating water and other water treatment equipment

Model	RMD-ISET1001

Specification	
Measuring range	0...20µS/cm
Constant	K=0.01cm^{-1}
Temperature measure range	0.0...80.0°C
Resolution	0.1°C
Accuracy	±0.3 °C
Temperature compensation	Automatic/Manual

Output	
Current signal output	4...20mA
	(Adjustable/three-wire)
Accuracy	1%FS
Load	< 500 Ω
Data communication	Rs485(MODBUS-RTU)

Other	DC9..30V (recommend DC12V)
Power supply	
Humidity	< 90%
Shell material	Stainless steel
Thread	G3/4
Cable length	5m signal line
Protection grade	Ip68
Electrical connection	Pin type

30mm · G3/4 · 40mm · G3/4 · 20mm · 14mm · 170mm · 40mm · 60mm

Signal line

Intelligent EC sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination,circulating water and other water treatment equipment

Model	RMD-ISET101

Specification	
Measuring range	0...200µS/cm
Constant	K=0.1cm^{-1}
Temperature measure range	0.0...80.0°C
Resolution	0.1°C
Accuracy	±0.3 °C
Temperature compensation	Automatic/Manual

Output	
Current signal output	4...20mA
	(Adjustable/three-wire)
Accuracy	1%FS
Load	< 500 Ω
Data communication	Rs485(MODBUS-RTU)

Other	DC9..30V (recommend DC12V)
Power supply	
Humidity	< 90%
Shell material	Stainless steel
Thread	G3/4
Cable length	5m signal line
Protection grade	Ip68
Electrical connection	Pin type

Dimensions: 30mm, G3/4, 40mm, G3/4, 20mm, 40mm, 14mm, 60mm, 170mm

Signal line

Intelligent EC sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination, circulating water and other water treatment equipment

Model	RMD-ISET11
Specification	
Measuring range	0...2000µS/cm
Constant	K=1.0cm^{-1}
Temperature measure range	0.0...80.0℃
Resolution	0.1℃
Accuracy	±0.3 ℃
Temperature compensation	Automatic/Manual
Output	
Current signal output	4...20mA
	(Adjustable/three-wire)
Accuracy	1%FS
Load	< 500 Ω
Data communication	Rs485(MODBUS-RTU)
Other	DC9...30V (recommend DC12V)
Power supply	
Humidity	< 90%
Shell material	Stainless steel
Thread	G3/4
Cable length	5m signal line
Protection grade	Ip68
Electrical connection	Pin type

30mm
G3/4
40mm
G3/4
170mm
20mm
40mm
14mm
60mm

Signal line

31mm

40mm

165mm

← G3/4

94mm

← 20mm

Intelligent EC sensor

Application

Water treatment,tap water,surface water,industrial water ,reverse osmosis,seawater desalination, circulating water and other water treatment equipment

Model	RMD-ISET110

Specification	
Measuring range	0...20000µS/cm
Constant	$K=10.0cm^{-1}$
Temperature measure range	0.0...80.0°C
Resolution	0.1°C
Accuracy	±0.3 °C
Temperature compensation	Automatic/Manual

Output	
Current signal output	4...20mA
	(Adjustable/three-wire)
Accuracy	1%FS
Load	< 500 Ω
Data communication	Rs485(MODBUS-RTU)

Other	DC9..30V (recommend DC12V)
Power supply	
Humidity	< 90%
Shell material	Stainless steel
Thread	G3/4
Cable length	5m signal line
Protection grade	Ip68
Electrical connection	Pin type