Avanale Water Solutions

MT-CM-230 Conductivity Monitor

Features:
- On-line panel mount conductivity monitor
- Display in μS and mS
- Automatic temperature compensation

Technical Parameter:

Sensor input range:	0~20, 0~200, 0~2000μS/cm
	0~20mS/cm
Accuracy:	1.5% (FS)
Stability:	±2 × 10^{-3} (FS) / 24h
Display:	Back light 3.5-bit LCD
Temperature comp.:	Automatic thermistor temp compensation, standard temperature: 25℃
Electrode:	1.0cm^{-1} plastic platinum gold electrode，1/2″ thread
Cable length:	5m or others(5~30m)
Power supply:	AC 220V ±10% 50Hz
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH
Dimensions:	48 × 96 ×100mm (height × width × depth)
Panel cut-out	45X91mm

Application:
- RO/DI system monitor
- Cooling water monitor
- Industrial water process monitor
- Desalinization monitor
- Water quality monitor

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MT-TDS-230 Conductivity Monitor

Features:

- On-line panel mount conductivity monitor
- Display in ppm
- Automatic temperature compensation

Technical Parameter:

Sensor input range:	0~20, 0~200, 0~2000 ppm
Accuracy:	1.5% (FS)
Stability:	$\pm 2 \times 10^{-3}$ (FS) / 24h
Display:	Back light 3.5-bit LCD
Temperature comp.:	Automatic thermistor temp compensation, standard temperature: 25℃
Electrode:	1.0 cm^{-1} plastic platinum gold electrode，1/2″ thread
Cable length:	5m or others(5~30m)
Power supply:	AC 220V ±10% 50Hz
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH
Dimensions:	48 × 96 ×100mm (height × width × depth)
Panel cut-out	45X91mm

Application:

- RO/DI system monitor
- Cooling water monitor
- Industrial water process monitor
- Desalinization monitor
- Water quality monitor

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MT-EC-450 Conductivity Controller

Features:

- On-line panel mount conductivity controller
- Display in μS , ppm and mS
- Simulate Function, Isolated 4-20mA current output
- Relay control output. Hi, On, Off.
- Automatic programmable temperature compensation
- Display and/or Control: μS, mS, ppm or ℃

Technical Parameter:

Sensor input range:	0~20, 0~200, 0~2000μS/cm
	0~20, 0~200, 0~2000ppm
	0~20mS/cm
Accuracy:	1.5% (FS)
Stability:	$\pm 2 \times 10^{-3}$ (FS) / 24h
Display:	Back light 3.5-bit LCD
Temperature comp.:	Automatic programmable compensation standard Temperature: 25℃
Electrode:	$1.0cm^{-1}$ plastic platinum gold electrode，1/2″ thread
Cable length:	5m or others(5~30m)
Current output:	Isolated 4-20mA current output
Control output:	Relay output, Hi, on, off
Power supply:	AC 220V ±10% 50Hz
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH
Dimensions:	48 × 96 ×100mm (height × width × depth)
Panel cut-out	45X91mm

Application:

- RO/DI system control
- Cooling water control
- Industrial water process control
- Desalinization monitor
- Water quality monitor

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MT-CM-5230 Conductivity Controller

Features:

- On-line panel mount conductivity monitor
- Display in μS , ppm and mS
- Simulate Function, Isolated 4-20mA current output
- Automatic programmable temperature compensation
- Display and/or Control: μS, mS, ppm or ℃

Technical Parameter:

Sensor input range:	0~20, 0~200, 0~2000μS/cm
	0~20, 0~200, 0~2000ppm
	0~20mS/cm
Accuracy:	1.5% (FS)
Stability:	$\pm 2 \times 10^{-3}$ (FS) / 24h
Display:	Back light 3.5-bit LCD
Temperature comp.:	Automatic programmable compensation standard Temperature: 25℃
Electrode:	$1.0cm^{-1}$ plastic platinum gold electrode，1/2″ thread
Cable length:	5m or others(5~30m)
Current output:	Isolated 4-20mA current output
Power supply:	AC 220V ±10% 50Hz
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH
Dimensions:	96 × 96 ×130mm (height × width × depth)
Panel cut-out	92X92mm

Application:

- RO/DI system monitor
- Cooling water monitor
- Industrial water Process monitor
- Desalinization monitor
- Water quality monitor

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MT-CM-5630 Conductivity Controller

Features:

- On-line panel mount conductivity controller
- Display in μS , ppm and mS
- Simulate Function, Isolated 4-20mA current output
- Relay control output. Hi, Lo, On, Off
- Automatic programmable temperature compensation
- Display and/or Control: μS, mS, ppm or ℃

Technical Parameter:

Sensor input range:	0~20, 0~200, 0~2000μS/cm
	0~20, 0~200, 0~2000ppm
	0~20mS/cm
Accuracy:	1.5% (FS)
Stability:	$\pm 2 \times 10^{-3}$ (FS) / 24h
Display:	Back light 3.5-bit LCD
Temperature comp.:	Automatic programmable compensation standard Temperature: 25℃
Electrode:	$1.0cm^{-1}$ plastic platinum gold electrode，1/2″ thread
Cable length:	5m or others(5~30m)
Current output:	Isolated 4-20mA current output
Control output:	Relay output, Hi, Lo, on, off
Power supply:	AC 220V ±10% 50Hz
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH
Dimensions:	96 × 96 ×130mm (height × width × depth)
Panel cut-out	92X92mm

Application:

- RO/DI system control
- Cooling water control
- Industrial water process control
- Desalinization monitor
- Water quality monitor

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MT-RM-220 Resistivity Monitor

Features:
- On-line panel mount resisitivity monitor.
- Display in MΩ.
- Simulate Function, Non-isolated 4-20mA current output
- Automatic temperature compensation

Technical Parameter:

Sensor input range:	0 ~ 18.2MΩ. cm
Accuracy:	1.5% (FS)
Stability:	$\pm 2 \times 10^{-3}$ (FS) / 24h
Display:	Back light 3.5-bit LCD
Temperature comp.:	Automatic thermistor temp compensation, standard temperature: 25℃
Electrode:	$0.05cm^{-1}$ sanitary grade stainless steel 316L electrode，1/2″ thread
Cable length:	10m or others(5~30m)
Current output:	Non-isolated 4-20mA current output
Power supply:	AC 220V ±10% 50Hz
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH
Dimensions:	48 × 96 ×100mm (height × width × depth)
Panel cut-out	45X91mm
Installation	Cut-out Fit-In

Application:
- RO/DI system monitor
- Cooling water monitor
- Industrial water process monitor
- Desalinization monitor
- Water quality monitor

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MT-RM-430 Resistivity Monitor

Features:
- On-line panel mount resisitivity monitor.
- Display in MΩ
- Relay control output, Lo, on, off
- Automatic temperature compensation

Technical Parameter:

Sensor input range: 0 ~ 18.2MΩ . cm

Accuracy: 1.5% (FS)

Stability: $\pm 2 \times 10^{-3}$ (FS) / 24h

Display: Back light 3.5-bit LCD

Temperature comp.:   Automatic thermistor temp compensation, standard temperature: 25℃

Electrode: $0.05cm^{-1}$ sanitary grade stainless steel 316L electrode，1/2″ thread

Cable length: 10m or others(5~30m)

Control output: Relay output, Lo, on, off

Power supply: AC 220V ±10% 50Hz

Environmental conditions: Temperature: 0~50℃；Humidity: ≤85%RH

Dimensions: 48 × 96 ×100mm (height × width × depth)

Panel cut-out   45X91mm

Application:
- RO/DI system monitor
- Cooling water monitor
- Industrial water process monitor
- Desalinization monitor
- Water quality monitor

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MT-RM-5220 Resistivity Controller

Features:

- On-line panel mount resisitivity monitor.
- Display in MΩ
- Simulate Function, Isolated 4-20mA current output
- Automatic temperature compensation

Technical Parameter:

Sensor input range:	0 ~ 18.2MΩ .cm
Accuracy:	1.5% (FS)
Stability:	$\pm 2 \times 10^{-3}$ (FS) / 24h
Display:	Back light 3.5-bit LCD
Temperature comp.:	Automatic thermistor temp compensation, standard temperature: 25℃
Electrode:	$0.05cm^{-1}$ sanitary grade stainless steel 316L electrode，1/2″ thread
Cable length:	10m or others(5~30m)
Current output:	Isolated 4-20mA current output
Power supply:	AC 220V ±10% 50Hz
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH
Dimensions:	96 × 96 ×130mm (height × width × depth)
Panel cut-out	92X92mm
Installation	Cut-out Fit-In

Application:

- RO/DI system monitor
- Cooling water monitor
- Industrial water process monitor
- Desalinization monitor
- Water quality monitor

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MT-RM-5620 Resistivity Controller

Features:

- On-line panel mount resisitivity monitor.
- Display in MΩ
- Simulate Function, Isolated 4-20mA current output
- Relay control output, Hi, Lo, on, off
- Automatic temperature compensation

Technical Parameter:

Sensor input range:	0 ~ 18.2MΩ .cm
Accuracy:	1.5% (FS)
Stability:	±2 × 10^{-3} (FS) / 24h
Display:	Back light 3.5-bit LCD
Temperature comp.:	Automatic thermistor temp compensation, standard temperature: 25℃
Electrode:	0.05 cm^{-1} sanitary grade stainless steel 316L electrode，1/2″ thread
Cable length:	10m or others(5~30m)
Current output:	Isolated 4-20mA current output
Control output:	Relay control output, Hi, Lo, on, off
Power supply:	AC 220V ±10% 50Hz
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH
Dimensions:	96 × 96 ×130mm (height × width × depth)
Panel cut-out	92X92mm
Installation	Cut-out Fit-In

Application:

- RO/DI system monitor
- Cooling water monitor
- Industrial water process monitor
- Desalinization monitor
- Water quality monitor

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MT-CRC-8850 Conductivity/Resistivity Controller

Features:

- On-line panel mount conductivity or resisitivity controller
- Display in μS , ppm (TDS) and mS MΩ
- Simulate Function, Isolated 4-20mA current output
- Relay control output, Hi, Lo, pulse, off
- Automatic programmable temperature compensation
- Dual output option allows temperature and process signal transmission
- 2X16 character dot matrix LCD
- NEMA 4X/IP65 enclosure with self-healing window
- Meets USP requirements
- Used for conductance, resistance, or TDS signal transmission and display

Technical Parameter:

Sensor input range:	Conductivity: 0.055 ~ 400000μS/cm
	Resisitivity: 0 ~ 18.2MΩ .cm
	TDS: 0.023 ~ 200000ppm
Accuracy:	1.0% (FS)
Stability:	$\pm 2 \times 10^{-3}$ (FS) / 24h
Display:	Back light 2X16 character dot matrix LCD
Temperature comp.:	Automatic thermistor temp compensation, standard temperature: 25℃ (PT1000, -25℃ ~ 120℃)
Current output:	Isolated 4-20mA current output, fully adjustable and reversible
Relay output:	Mechanical SPDT contacts:, Hi, Lo, Pulse, Of Max 400 pulses/min
Open-collector output:	Hi, Lo, Pulse, Off Max 400 pulses/min
Communication Output:	RS-485 serial port
Power supply:	DC 18~36V
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH
Dimensions:	96 × 96 ×45mm (height × width × depth)
Panel cut-out	92X92mm

Application:

- RO/DI system monitor
- Cooling water monitor
- Industrial water process monitor
- Desalinization monitor
- Water quality monitor
- Environmental study (TDS)
- Leak detection
- Chemical concentration

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MT-pH-850 pH Controller

Features:

- On-line panel mount pH controller.
- Display in pH
- Simulate Function, Isolated 4-20mA current output
- Relay control output, Hi, Lo, on
- Automatic temperature compensation

Technical Parameter:

Sensor input range:	0.00 ~ 14.00pH
Resolution:	0.02pH
Accuracy:	+/- 0.1pH
Display:	Back light 3.5-bit LCD
Temperature comp.:	Automatic MTC temp compensation 0 ~ 80℃
Calibration:	Automatic 3 point calibration
Electrode:	Plastic-shell dual combination electrode，3/4″ thread
Cable length:	10m or others(5~30m)
Current output:	Isolated 4-20mA current output
Control output:	Relay control output, Hi, Lo, on
Power supply:	AC 220V ±10% 50Hz
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH
Dimensions:	48 × 96 ×100mm (height × width × depth)
Panel cut-out	45X91mm

Application:

- RO/DI system control
- Cooling water control
- Industrial water process control
- Waste water control
- Desalinization monitor
- Water quality monitor

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MT-ORP-860 ORP Controller

Features:

- On-line panel mount pH controller.
- Display in mV
- Simulate Function, Isolated 4-20mA current output
- Relay control output, Hi, Lo, on

Technical Parameter:

Sensor input range:	-999 ~ 999mV
Accuracy:	+/-2mV
Display:	Back light 3.5-bit LCD
Electrode:	Plastic-shell dual combination electrode，3/4″ thread
Cable length:	10m or others(5~30m)
Current output:	Isolated 4-20mA current output
Control output:	Relay control output, Hi, Lo, on
Power supply:	AC 220V ±10% 50Hz
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH
Dimensions:	48 × 96 ×100mm (height × width × depth)
Panel cut-out	45X91mm

Application:

- RO/DI system control
- Cooling water control
- Industrial water process control
- Waste water control
- Desalinization monitor
- Water quality monitor

MT-pH/ORP-2310 ORP Controller

Features:

- On-line panel mount pH/ORP controller.
- Display in pH,mV
- Simulate Function, Isolated 4-20mA current output
- Relay control output, Hi, Lo, on, off
- Automatic temperature compensation
- Display and/or Control: pH or ORP

Technical Parameter:

Sensor input range:	pH:	0.00 ~ 14.00pH
	ORP:	-999 ~ 999mV
Accuracy:	pH:	+/- 0.1pH
	ORP:	+/-2mV
Display:	Back light 3.5-bit LCD	
Temperature comp.:	Automatic MTC temp compensation 0 ~ 60℃	
Calibration:	Automatic 3 point calibration	
Electrode:	Plastic-shell dual combination electrode，3/4″ thread	
Cable length:	10m or others(5~30m)	
Current output:	Isolated 4-20mA current output	
Control output:	Relay control output, Hi, Lo, on, off	
Power supply:	AC 220V ±10% 50Hz	
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH	
Dimensions:	96 × 96 ×130mm (height × width × depth)	
Panel cut-out	92X92mm	
Installation	Cut-out Fit-In	

Application:

- RO/DI system control
- Industrial water process control
- Pool and spa control
- Waste water control
- Desalinization monitor
- Water quality monitor
- Disinfecting

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MT-pH/ORP-2800 ORP Controller

Features:

- On-line panel mount pH/ORP controller.
- Display in pH,mV
- Simulate Function, Isolated 4-20mA current output
- Relay control output, Hi, Lo, on, off
- Automatic temperature compensation
- Display and /or Control :pH and ORP simultaneously

Technical Parameter:

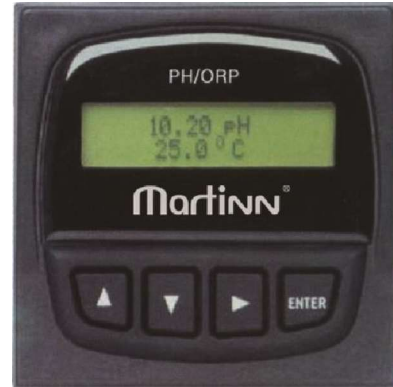|		
Sensor input range:	pH:	-2.00 ~ 16.00pH
	ORP:	-2000 ~ +2000mV
Resolution:	pH:	0.01pH
	ORP:	1 mV
Accuracy:	pH:	+/- 0.02pH
	ORP:	+/- 4mV
Temperature comp.:	PT100,10℃~130℃ (MTC,ATC)	
Calibration:	Automatic 3 point calibration	
Electrode:	Plastic-shell dual combination electrode，3/4″ thread	
	Plastic-shell triple combination electrode，3/4″ thread (Pt100)	
Cable length:	10m or others(5~30m)	
Current output:	Isolated 4-20mA current output	
Control output:	Relay control output, Hi, Lo, on, off	
Power supply:	AC 220V ±10% 50Hz	
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH	
Dimensions:	96 × 96 ×130mm (height × width × depth)	
Panel cut-out	92X92mm	
Installation	Cut-out Fit-In	

Application:

- RO/DI system control
- Cooling water control
- Industrial water process control
- Pool and spa control
- Waste water control
- Desalinization monitor
- Water quality monitor
- Disinfecting

MT-pH/ORP-8750 ORP Controller

Features:

- On-line panel mount pH and ORP controller
- Display in ℃
- Hold and Simulate Function, Isolated 4-20mA current output
- Relay control output, Hi, Lo, pulse, off
- Automatic temperature compensation (PH)
- Output scalability
- Dual output option allows temperature and pH signal transmission
- 2X16 character dot matrix LCD
- NEMA 4X/IP65 enclosure with self-healing window
- Meets USP requirements
- Used for pH or ORP signal transmission and display

Technical Parameter:

Sensor input range:	pH:	0.00 ~ 14.00pH
	ORP:	-2000 ~ +2000mV
Accuracy:	pH:	0.01pH
	ORP:	1 mV
Display:	Back light 2X16 character dot matrix LCD	
Temperature comp.:	Automatic temp compensation PT1000, -25℃ ~ 120℃ (MTC, ATC)	
Current output:	Isolated 4-20mA current output, fully adjustable and reversible Relay	
output:	Mechanical SPDT contacts:, Hi, Lo, Pulse, Of	
	Max 400 pulses/min	
Open-collector output:	Hi, Lo, Pulse, Off	
	Max 400 pulses/min	
Communication Output:	RS-485 serial port	
Power supply:	DC 18~36V	
Environmental conditions:	Temperature: 0~50℃；Humidity: ≤85%RH	
Dimensions:	96 × 96 ×45mm (height × width × depth)	
Panel cut-out	92X92mm	
Installation	Cut-out Fit-In	

Application:

- Neutralization systems
- Heavy metals recovery
- Plating control
- Industrial water process monitor
- Pool and spa control
- Desalinization monitor
- Water quality monitor
- Environmental study
- Waste water control
- Disinfecting

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MT-ROE-2200 Reverse Osmosis Controller

Features:

- Panel mount reverse osmosis controller
- RO collecting: water shortage, raw water low pressure, high pressure, product water tank high level.
- RO controlling: raw water pump overload, high pressure pump overload, inlet valve, auto-flush valve
- Simulate Function, Isolated 4-20mA current output
- Relay control output. On
- Automatic temperature compensation

Technical Parameter:

Current output:	Isolated 4-20mA current output
Control output:	Relay output, on
Power supply:	AC 220V ±10% 50Hz
Environmental conditions:	Temperature: 0~50℃；Humidity:
≤85%RH Dimensions:	48 × 96 ×100mm (height × width × depth)
Panel cut-out	45X91mm
Installation	Cut-out Fit-In

Application:

- RO/DI system control
- Industrial water process control
- Desalinization control

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MT-ROE-2230 Reverse Osmosis Controller

Features:

- Panel mount reverse osmosis controller with on-line conductivity and temperature monitor
- RO collecting: water shortage, raw water low pressure, high pressure, product water tank high level.
- RO controlling: raw water pump, high pressure pump, RO high pressure, inlet valve, auto-flush valve,. membrane flush, sleep,
- Simulate Function, Isolated 4-20mA current output
- Relay control output. On
- Automatic temperature compensation
- Display and/or Control: μS and ℃

Technical Parameter:

Sensor input range:	Conductivity: 0~20, 0~200, 0~2000μS/cm
	Temperature: 0 ~ 50℃
Accuracy:	1.5% (FS)
Stability:	$\pm 2 \times 10^{-3}$ (FS) / 24h
Display:	Conductivity: 4 digit
	LCD Temperature: 3
	digit LCD
Temperature comp.:	Automatic compensation standard Temperature: 25℃M
Media Temperature:	5 ~ 50℃
Electrode:	1.0cm^{-1} plastic platinum gold electrode，1/2″ thread
Cable length:	5m or others(5~30m)
Current output:	Isolated 4-20mA current output
Control output:	Relay output, on
Power supply:	AC 220V $\pm$10% 50Hz
Environmental conditions:	Temperature: 0~50℃；Humidity: $\leq$85%RH
Dimensions:	96 × 96 ×130mm (height × width × depth)
Panel cut-out	92X92mm
Installation	Cut-out Fit-In

Application:

- RO/DI system control
- Industrial water process control
- Desalinization control

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MT-UF-4060 UF Controller

Features:

- Panel mount UF controller
- UF controlling: Service, Forward Flushing, Back Washing
- Relay control output. On
- Friendly Interface Designing

Technical Parameter:

Power voltage:	AC 220V±15%　50Hz
Temperature:	0～50℃;
Humidity:	≤85%RH
Load capacity of output contact:	5A/250V AC
	The magnetic valve should be driven through intermediate relay
Medium temperature:	5～50℃
Display mode:	3 1/2-digit LCD digital display
Outline dimensions:	96×96×110mm (height×width×depth)
Meter board hole:	92×92mm (height×width)
Installation	Cut-out Fit-In

Application:

- UF system control
- Residential water process control

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TDS-3D   TDS Meter

3 Digit Display: 000-999 ppm
Accuracy: ±2% F.S.
Operating Temp: 0-50°C Automatic temp. compensation
Battery Life: 1000 hours, 2x1.5V button cell
Size: 15.5*3.1*2.3cm
Weight: 76.5g(2.7oz)
Comes with Clip-On Protective pouch

TDS-4D   TDS Meter

4 Digit Display: 0000-5000 ppm
Accuracy: ±2% F.S.
Operating Temp: 0-80°C Automatic temp. compensation
Battery Life: 1000 hours, 3 V CR2032 button cell
Size: 15 x 2.8x 1.3cm
Weight: 42.5 g (1.5 oz)
Comes with Clip-On Protective pouch

TDS-3D-TEMP   TDS & Temp Meter

3 Digit Display   TDS: 000-999 ppm
                       Temperature: 0 ~ 50℃
Accuracy: ±2% F.S.
Operating Temp: 0-80°C Automatic temp. compensation
Battery Life: 1000 hours, 4x1.4V Mercury 675H or Equivalent
Size: 15.5*3.1*2.3cm
Weight: 76.5g(2.7oz)
Comes with Clip-On Protective pouch

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MT-DM-1   Dual TDS Meter

On-line dual TDS meter

3 Digit Display:	000-999 ppm
Accuracy:	±2% F.S.
Operating Temp:	0-50°C Automatic temp. compensation
Battery :	button cell 1.5V * 2
Size:	7.6*2*4.7CM
Weight:	79.4g

MT-DM-2   Dual TDS Meter

On-line dual TDS meter

3 Digit Display:	000-999 ppm
Accuracy:	±2% F.S.
Operating Temp:	0-50°C Automatic temp. compensation
Battery :	5A (1.5V)*2
Size:	11.6*6.8*1.8CM
Weight:	201.3g

MT-PH-200   PH Meter

Range:	0.00 ~ 9.99, 10.0 ~ 14.00pH
Resolution:	0.01pH
Accuracy:	+/- 0.02pH
Display:	Back light large LCD
Temperature comp.:	Automatic temp compensation 0 ~ 80°C
Calibration:	Automatic 3 point calibration
Operating Temp:	0~80°C
Battery:	button cell 1.5V*3
Battery life:	1000 hours
Size:	18.5×3.4×3.4cm
Weight:	95g (3.4oz)

MT-COM-100   TDS/Conductivity/Temp Meter

Range:	0~99.9, 100~999, 1000~9990μS/cm
	0~99.9, 100~999, 1000~9990ppm
Resolution:	0.1us,1us,10us
	0.1ppm,1ppm,10ppm
Accuracy:	2% (FS)
Transfer coefficients:	Non-linearity, including KCl, NaCl, 442, chosen by user.
Proofread:	Manual proofread.
Temperature comp.:	Automatic compensation standard Temperature: 25℃
Water Proof:	IP67
Battery:	button cell 1.5V*3
Size:	18.5*3.4*3.4cm
Weight:	90.7g