



CLEAN L'EAU INSTRUMENTS CO.,LTD

Tester / Portable / Bench-top Meter / Controller / Electrodes



昆凌仪器设备公司成立于2004年本公司致力于水质环境检测。不断创新研发制造环保及精确量测的水质分析仪器至今已销售10多个国家，并在中国/台湾/新加坡及美国成立分公司服务广大的消费使用者。

客户的满意度向来是本公司团队的坚持，以量测的精准及优越的服务品质为基础，研发制造多样水质检测仪器系统，积极为产业技术利用，学术领域创新，环境改造维护的方向做努力，并被同业视为复制学习的对象，突显昆凌仪器投入水质环保及迈入国际化发展的愿景！

我们的产品提供高级的节能科技，有效减少电池用量及节省电力的技术，为环保尽一份心力。全系列提供完整机型，从轻巧且功能强悍的测试笔至线上型微电脑控制器，都成为环境勘查，样品量测，水质监控的好帮手。可利用于工业制程，废水测量，大地监测，养殖水族...等广泛用途。提供精确的参考数据。

我们衷心期待能与广大的CLEAN L'EAU仪器使用者一起携手迈向绿色环保时代的来临。为地球带来更多的维护与希望!创造生生不息的生存环境！

For more than a decade, Clean L'eau has delicate to world-class water analytical environmental testing instruments. Through our services, we continue to engineer and ensure our innovative products are well-cater to our diverse clientele all over the world.

The continuous satisfaction of our customers is our company's top priority. Our company's foundation is built upon precise measurements and excellent service. Efforts are focused on technological applications, innovative methods, and environmental protection. Our resolution is shown in the development and production of water quality measurement. Ultimately, our goal is to internationalize and bring about safe water quality and environmental protection to the globe.

Clean L'eau is objected to develop a more energy-effective, battery-saving and long lasting operating analytical instruments. All our models from advanced on-line microchip monitoring/controlling system, bench top to portable weightless handheld devices are developed to meet different requirements and applied in varies environments such as ultra pure water distilled water testing laboratory practice, aquaculture industries even to industrial online waste water monitoring.

At Clean L'eau, we value each different unique experience and rely on those experiences to fuel our innovation. At Clean L'eau, we aspire to be the best to provide leading innovations and solutions for clean water. At Clean L'eau, we look forward to have that unique experience with you.

Our Logo:



We are very proud to introduce this water-friendly duck "LOU" as part of our company image.

Our new friend LOU is a Mallard as known as *Anas platyrhynchos* can only live and play in the water/pond that is filled with clean water.

We creatively incorporated the word "water" in France, and our friend "LOU" to express our determination to keep our water clean so LOU can live and play happily everywhere in the world.

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Tester Feature

30 series PH / ORP / CON / DO / FCL / DOZ



Self-diagnostic



- User-friendly design.
- Smile : Electrode is good condition.
- Unsmile : Proposed to replace the electrode.
- Only for PH / DO tester.

Button Keypad



- Easy to operate.

Housing



- Waterproof and dustproof in accordance with IP67.
- Suitable for an immensely wide range of various Laboratory / Harsh environments applications.

Energy Saving



- Use 1 x 1.5V AAA battery. (CON30/FCL30/DOZ30 2x1.5V AAA)
- Low- battery indicator and easy to maintenance.

Flow Cell

Enclose
& Stable
flowing



- For DO/FCL/DOZ using. Keep flowing and stirring stable, provide for reliable result.
- Use 2 x AA batteries.





Ring-pull Design



- Easy to carry.

Large LCD Screen



- Energy stored backlit for easy reading.
- Up to 5-point auto calibration for avoid error.
- Data-hold function and auto buffer recognition.

Replaceable Electrode

- Reduce the maintance costs effectively.



PH



DO



FCL



ORP



CON



DOZ

Flat-electrode



- For PH30 / ORP30 / FCL30 / DOZ30.
- High impedance flat-electrode can measure tiny sample.
- Applied to measuring the moisture content of the skin or solid.

Float Design



- Keep the electrode submerged in underwater and display floating on the water.

Field Carry Case



- The tester,battery,buffer, just everything can be stored in the field kit.



Feature

- ※ Extensive applications: Ideal for check on water quality, plating operations, field applications and other redox measurements.
- ※ Display: Large LCD screen with backlit for easy reading, provides comprehensive meter information.
- ※ Up to 5 points calibration for avoiding error with auto-buffer-recognition calibration (PH30).
- ※ Easy Maintenance, no tools needed to change batteries and electrode.
- ※ Auto-off function, data-memory function and stability indicator, low-batteries indicator.
- ※ Auto data hold/lock function for reading stable measuring data.
- ※ Multi-purpose carrying case.
- ※ Electrode slope indicator display(PH30).

PH30



ORP30



CON30



Specifications	PH30	ORP30	CON30
Range	-2.00~16.00 pH	-900~+900 mV	0~200.0uS/cm, 0~2000uS/cm, 0~20.00mS/cm,0~50.0mS/cm TDS : 0~50 ppt ; Salinity : 0~30 ppt
Temperature Range	0.0~60.0°C/32.0~140.0°F	0.0~60.0°C/32.0~140.0°F	0.0~60.0°C/32.0~140.0°F
Resolution	0.01pH , 0.1°C/°F	1mV , 0.1°C/1°F	0.1,1uS/cm(ppm),0.01,0.1mS/cm(ppt)
Accuracy	±0.01 pH	±1 mV	±1 %F.S
Temperature Compensation	Auto / Manual	—	Auto
Temperature Coefficient	—	—	0.00~10.00% adjustable (default 2.00%)
Temperature Reference	—	—	15.0~30.0°C adjustable (default 25°C)
TDS Coefficient	—	—	0.40~1.00 adjustable (default 0.50)
Salinity Coefficient	—	—	0.65
Ingress Protection	IP67	IP67	IP67
Calibration	Auto, up to 5 points	—	1 point
Electrode	CS1930	CS2930	CS3930
Power Supply	1x1.5V AAA	1x1.5V AAA	2x1.5V AAA
Memory	10 sets	10 sets	10 sets
Display	22x32mm Photo-Luminescent LCD	22x32mm Photo-Luminescent LCD	22x32mm Photo-Luminescent LCD
Dimensions/Weight	164x37x40mm/90g	164x37x40mm/90g	164x37x40mm/90g

TESTER ACCESSORIES

CS1930 - pH Electrode

Type: Glass
Test Range: 0~14pH
Temperature Range: 0.0~60.0° C
Electrolyte: 3 mol KCL



CS2930 - ORP Electrode

Type: Platinum
Temperature Range: 0.0~60.0° C
Reference System: Ag/AgCl
Electrolyte: 3 mol KCL



CS3930 - Conductivity Electrode

Type: PPS/Graphite
Temperature Range: 0.0~60.0° C
Cell Constant: K=1.0



Water Measurement Tester

Dissolved Oxygen / Free Chlorine / Ozone Tester

Feature

- ※ Extensive application : Aquacultural: Use to monitor oxygen levels in ornamental fish tanks and ponds ; fish and shells farming and food & beverage,drinking water,swimming pools.
- ※ Display: Large LCD screen with backlit for easy reading, provides comprehensive meter information.
- ※ Easy Maintenance, no tools needed to change batteries and electrode.
- ※ Auto-off function, data-memory function and stability indicator, low-batteries indicator.
- ※ Auto data hold/lock function for reading stable measuring data.
- ※ Multi-purpose carrying case.
- ※ Electrode slope indicator display(DO30).

DO30



FCL30



DOZ30



Specifications	DO30	FCL30	DOZ30
Range	0.00~20.00mg/L, 0.0~200.0%	0.05~10.00ppm	0.05~5.00ppm
Temperature Range	0.0~60.0°C/ 32.0~140.0°F	0.0~60.0°C/ 32.0~140.0°F	0.0~60.0°C/ 32.0~140.0°F
Resolution	0.01mg/L, 0.1%, 0.1°C/ 0.1°F	0.01ppm, 0.1°C/1°F	0.01 ppm
Accuracy	±1.5%F.S. ±0.3°C/0.5°F	±2%F.S.	±2%F.S.
Temperature Compensation	Auto	—	—
Atmospheric Pressure Compensation	600~1100 mbar	—	—
Salinity Compensation	0.0~40.0 ppt	—	—
Ingress Protection	IP67	IP67	IP67
Calibration	1 or 2 points	2 points	2 points
Electrode	CS4930	CS5930	CS6930
power Supply	1x1.5V AAA	2x1.5V AAA	2x1.5V AAA
Memory	10 sets	10 sets	10 sets
Display	22x32mm Photo-Luminescent LCD	22x32mm Photo-Luminescent LCD	22x32mm Photo-Luminescent LCD
Dimensions/Weight	164x37x40mm/90g	164x37x40mm/90g	164x37x40mm/90g
Remark	—	A530 Miniature Stirrer with a constant speed.	—

TESTER ACCESSORIES

CS4930 - Galvanic DO Electrode

Type: Platinum Cathode/Alloy Anode

Test Range: 0~20mg/L

Temperature System: NTC22K

Temperature Range: 0~60°C



CS5930 - FCL 30 Electrode

Type: Three-electrode sensor

Temperature Range: 0~60°C

Reference System: Ag/AgCl

Electrolyte: 3 mol Colloid KCL



CS6930 - DOZ 30 Electrode

Type: Three-electrode sensor

Temperature Range: 0~60°C

Reference System: Ag/AgCl

Electrolyte: 3 mol Colloid KCL





Electrode Slot

- Easy for storage electrode.

BNC/DIN Connector



Housing

- Waterproof and dustproof in accordance with IP65(PH)/IP67(CON/DO).
- Multi-point auto calibration for avoiding error.
- Suitable for immensely wide range of various Laboratory / Harsh environments applications.

Energe Saving



- Use 2 x 1.5V AA batteries.
- Low-battery indicator and easy to maintenance.



Field Carry Case



- The field belt and other accessories help crate work station for you in the field.

Large LCD Screen



- 43 x 70 mm large LCD screen for easy reading.

Ring-pull Design



- Easy to carry.

Large LCD Screen



- 100 x 74 mm large LCD screen.
- Automatically switch to MTC mode when there is no temperature probe.
- Data hold function and auto buffer recognition.

Electrode Holder



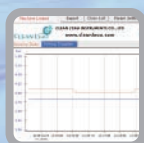
- Measuring angle can be adjust.



250/550 series



- Background illumination and data transfer software by USB2.0 connect to PC.



Built-in Battery



- Built-in rechargeable Li-battery for moving operate.
- Rechargeable battery can be connected to the USB port or power outlet for charging.

Feature

- ※ Applications: Schools and Education institutes, Chemical laboratories, Quality assurance testing, Food science.
- ※ Large LCD display, great 120 degree angle view.
- ※ Up to 5 points calibration for avoiding error with auto-buffer-recognition calibration (PH200/PH500).
- ※ Temperature offset adjusting function.
- ※ 100 sets of data storage function(PH200/PH500).
- ※ Built-in rechargeable Li-battery with low battery indicator (Bench-top Meter).
- ※ Offset value function.
- ※ Selectable mode for antimony electrode for HF (hydrofluoric acid) application(PH200/PH500).
- ※ Stability indicator and auto data Hold/Lock function for easy reading.
- ※ Self-diagnostic message codes for easy reference (PH200/500).

PH200

PH100

PH500

PH350



Specifications	PH200	PH100	PH500	PH350
pH Range	-2.00~16.00 pH		-2.00~16.00 pH	
ORP Range	-2000~2000 mV		-2000~2000 mV	
Temperature Range	-5.0~120.0°C/ 23.0~248.0°F		-5.0~120.0°C/ 23.0~248.0°F	
Resolution	0.01pH,0.1mV(-600.0~600.0).0.1°C/0.1°F		0.01pH, 0.1mV(-600.0~600.0).0.1°C/0.1°F	
Accuracy	±0.01pH, ±0.2mV/1mV, ±0.3°C/±0.5°F		±0.01pH, ±0.2mV/1mV, ±0.3°C/±0.5°F	
Temperature Compensation	Auto / Manual		Auto / Manual	
pH Electrode	Standard pH or Antimony electrode	Standard pH	Standard pH or Antimony electrode	Standard pH
Memory	100 sets	—	100 sets	—
Auto power off	10 minutes no key is pressed		10 minutes no key is pressed	
Calibration	Auto, up to 5 points (USA/NIST option)	Auto, up to 3 points (USA/NIST option)	Auto, up to 5 points (USA/NIST option)	Auto, up to 3 points (USA/NIST option)
Power Supply	2x1.5V AA		100~240 VAC	
Ingress Protection	IP65		IP54	
Size	73x152x42mm		150x194x56mm	
Weight	250g		1.0Kg	
Electrodes / Accessories	See P.33			

Water Measurement Meter

pH / ORP Portable & Bench-top Meter

Feature

- ※ Applications: Schools and Education institutes, Chemical laboratories, Quality assurance testing, Food science.
- ※ Large LCD display, great 120 degree angle view.
- ※ Up to 5 points calibration for avoiding error with auto-buffer-recognition calibration.
- ※ Temperature offset adjusting function.
- ※ 100 sets of data storage function.
- ※ Beep sounds.
- ※ Built-in rechargeable Li-battery with low battery indicator (Bench-top Meter).
- ※ Electrode slope indicator.
- ※ Offset value function.
- ※ Selectable mode for antimony electrode for HF (hydrofluoric acid) application.
- ※ Stability indicator and auto data Hold/Lock function for easy reading.
- ※ Data transfer software by USB output interface.
- ※ With background illumination screen.

PH 230

PH 250

PH550



Specifications	PH230	PH250	PH550
pH Range	-2.00~16.00 pH		-2.00~16.00 pH
ORP Range	-2000~2000 mV		-2000~2000 mV
Temperature range	-5.0~120.0°C / 23.0~248.0°F		-5.0~120.0°C / 23.0~248.0°F
Resolution	0.01pH, 0.1mV(-600.0~600.0).0.1°C/0.1°F		0.01pH, 0.1mV(-600.0~600.0).0.1°C/0.1°F
Accuracy	±0.01pH, ±0.2mV/1mV, ±0.3°C/±0.5°F		±0.01pH, ±0.2mV/1mV, ±0.3°C/±0.5°F
Temperature compensation	Auto / Manual		Auto / Manual
pH electrode	Standard pH or Antimony electrode		Standard pH or Antimony electrode
Memory	100 sets		100 sets
Auto power off	10 minutes no key is pressed		10 minutes no key is pressed
Calibration	Auto, up to 5 points (USA/NIST option)		Auto, up to 5 points (USA/NIST option)
Communication interfaces	—	USB	USB
Power supply	2x1.5V AA		100~240 VAC
Ingress Protection	IP65		IP54
Size	73x152x42mm		150x194x56mm
Weight	250g		1.0Kg
Electrodes / Accessories	See P.33		

Feature

- ※ Applications: Water quality testing, Cooling tower water, Boiler water, Ponds, Pollution control, Waste water, Industrial process systems.
- ※ Large LCD display, great 120 degree angle view.
- ※ Auto-off function.
- ※ Temperature offset.
- ※ Built-in rechargeable Li-battery with low battery indicator (Bench-top Meter).
- ※ 100 sets of data storage function.
- ※ Stability indicator and auto data Hold/Lock function for easy reading.

CON200



CON500



Specifications	CON200	CON500
Conductivity / TDS / Salinity Range	0~5.000uS/cm, 0~50.00uS/cm , 0~500.0uS/cm, 0~5000uS/cm , 0~50.00mS/cm, 0~500.0mS/cm , TDS : 0~500ppt ; Salinity : 0~325ppt	0~5.000uS/cm, 0~50.00uS/cm, 0~500.0uS/cm, 0~5000uS/cm, 0~50.00mS/cm, 0~500.0mS/cm, TDS : 0~500ppt ; Salinity : 0~325ppt
Conductivity Resolution	0.001uS/cm(ppm),0.01uS/cm(ppm) 0.1uS/cm(ppm) , 1uS/cm(ppm) 0.01mS/cm(ppm), 0.1mS/cm(ppm)	0.001uS/cm(ppm),0.01uS/cm(ppm) 0.1uS/cm(ppm) , 1uS/cm(ppm) 0.01mS/cm(ppm), 0.1mS/cm(ppm)
Conductivity Accuracy	±1% F.S.	±1% F.S.
Resistivity Range	0~18.3 MΩ*cm	0~18.3 MΩ*cm
Resistivity Resolution	0.1 MΩ*cm	0.1 MΩ*cm
Resistivity Accuracy	±1% F.S.	±1% F.S.
Temperature Range	-5.0~120.0°C/ 23.0~248.0°F	-5.0~120.0°C/ 23.0~248.0°F
Temperature Resolution	0.1°C/ 0.1°F	0.1°C/ 0.1°F
Temperature Accuracy	±0.3°C/ ±0.5°F	±0.3°C/ ±0.5°F
Temperature Compensation	Auto	Auto
Reference Temperature	15.0~30.0°C (default 25°C)	15.0~30.0°C (default 25°C)
Temperature Coefficient	0.00~9.99% (default 2.00%)	0.00~9.99% (default 2.00%)
TDS Coefficient	0.40~1.00 (default 0.50)	0.40~1.00 (default 0.50)
Salinity Coefficient	0.65	0.65
Cell Constant	0.01/0.1/1/10 (With specified electrode)	0.01/0.1/1/10 (With specified electrode)
Power Supply	2x1.5V AA	100~240 VAC
Ingress Protection	IP67	IP54
Size / Weight	73x152x42mm / 250g	150x194x56mm / 1.0Kg
Electrodes / Accessories	See P.34	

Water Measurement Meter

Conductivity Portable & Bench-top Meter

Feature

- ※ Applications: Water quality testing, Cooling tower water, Boiler water, Ponds, Pollution control, Waste water, Industrial process systems.
- ※ Large LCD display, great 120 degree angle view.
- ※ Auto-off function.
- ※ Temperature offset.
- ※ Beep sounds.
- ※ 100 sets of data storage function.
- ※ Built-in rechargeable Li-battery with low battery indicator (Bench-top Meter).
- ※ Stability indicator and auto data Hold/Lock function for easy reading.
- ※ Data transfer software by USB output interface.
- ※ With background illumination screen.

CON250



CON550



Specifications	CON250	CON550
Conductivity / TDS/ Salinity Range	0~5.000uS/cm , 0~50.00uS/cm 0~500.0uS/cm , 0~5000uS/cm 0~50.00mS/cm, 0~500.0mS/cm TDS : 0~500ppt ; Salinity : 0~325ppt	0~5.000uS/cm , 0~50.00uS/cm 0~500.0uS/cm , 0~5000uS/cm 0~50.00mS/cm ,0~500.0mS/cm TDS : 0~500ppt ; Salinity : 0~325ppt
Conductivity Resolution	0.001uS/cm(ppm),0.01uS/cm(ppm) 0.1uS/cm(ppm) , 1uS/cm(ppm) 0.01mS/cm(ppt), 0.1mS/cm(ppt)	0.001uS/cm(ppm),0.01uS/cm(ppm) 0.1uS/cm(ppm) , 1uS/cm(ppm) 0.01mS/cm(ppt), 0.1mS/cm(ppt)
Conductivity Accuracy	±1% F.S.	±1% F.S.
Resistivity Range	0~18.30 MΩ*cm	0~18.30 MΩ*cm
Resistivity Resolution	0.01 MΩ*cm	0.01 MΩ*cm
Resistivity Accuracy	±1% F.S.	±1% F.S.
Temperature Range	-5.0~120.0°C/ 23.0~248.0°F	-5.0~120.0°C/ 23.0~248.0°F
Temperature Resolution	0.1°C/ 0.1°F	0.1°C/ 0.1°F
Temperature Accuracy	±0.3°C/ ±0.5°F	±0.3°C/ ±0.5°F
Temperature Compensation	Auto	Auto
Reference Temperature	15.0~30.0°C (default 25°C)	15.0~30.0°C (default 25°C)
Temperature Coefficient	0.00~9.99% (default 2.00%)	0.00~9.99% (default 2.00%)
TDS Coefficient	0.40~1.00 (default 0.50)	0.40~1.00 (default 0.50)
Salinity Coefficient	0.65	0.65
Cell Constant	0.01/0.1/1/10 (With specified electrode)	0.01/0.1/1/10 (With specified electrode)
Data software	USB	USB
Power Supply	2x1.5V AA	100~240 VAC
Ingress Protection	IP67	IP54
Size / Weight	73x152x42mm/250g	150x194x56mm/1.0Kg

Electrodes / Accessories

See P.34

Feature

- ※ Applications: Ponds and aquariums, Aquaculture, Water and wastewater treatment, Education institutions, Field and Laboratory application.
- ※ Large LCD display, great 120 degree angle view.
- ※ Selectable display in ppm or %.
- ※ Temperature offset adjusting function.
- ※ 100 sets of data storage function.
- ※ Selectable manual input of salinity / barometric / pipeline or depth pressure for compensation.
- ※ Provides probe condition based on both offset and slope.
- ※ Built-in rechargeable Li-battery with low battery indicator (Bench-top Meter).
- ※ Stability indicator and auto data Hold/Lock function for easy reading.
- ※ Selectable mode for Galvanic or Clark electrode.

DO200



DO500



Specifications	DO200	DO500
Range	0.00~40.00 mg/L, 0.0~400.0% -5.0~120.0°C /23.0~248.0°F	0.00~40.00 mg/L, 0.0~400.0% -5.0~120.0°C /23.0~248.0°F
Resolution	0.01mg/L, 0.1%, 0.1°C/0.1°F	0.01mg/L, 0.1%, 0.1°C/0.1°F
Accuracy	±1.5% F.S., ±0.3°C/±0.5°F	±1.5% F.S., ±0.3°C/±0.5°F
Calibration	Auto / Manual	Auto / Manual
Salinity Compensation	0.0~45.0 ppt	0.0~45.0 ppt
Temperature Compensation	Auto / Manual	Auto / Manual
Atmospheric Pressure Compensation	450~800mmHg / 0.600~1.100bar	450~800mmHg / 0.600~1.100bar
Pipeline Pressure Compensation	0.00~1.00 Kg	0.00~1.00 Kg
Liquid Depth Compensation	0.0~10.0 m	0.0~10.0 m
Memory	100 sets	100 sets
Auto Power Off	10 minutes no key is pressed	10 minutes no key is pressed
Power Supply	2x1.5V AA	100~240 VAC
Ingress Protection	IP67	IP54
Size	73x152x42mm	150x194x56mm
Weight	250g	1.0Kg

Electrodes / Accessories

See P.34

Water Measurement Meter

Dissolved Oxygen Portable & Bench-top Meter

Feature

- ※ Applications: Ponds and aquariums, Aquaculture, Water and wastewater treatment, Education institutions, Field and Laboratory application.
- ※ Large LCD display, great 120 degree angle view.
- ※ Selectable display in ppm or %.
- ※ Temperature offset adjusting function.
- ※ Beep sounds.
- ※ Selectable manual input of salinity / barometric / pipeline or depth pressure for compensation.
- ※ Electrode slope indicator.
- ※ Offset value function.
- ※ Built-in rechargeable Li-battery with low battery indicator (Bench-top Meter).
- ※ Selectable mode for Galvanic or Clark electrode.
- ※ Stability indicator and auto data Hold/Lock function for easy reading.
- ※ Data transfer software by USB output interface.
- ※ With background illumination screen.

DO250



DO550



Specifications	DO250	DO550
Range	0.00~40.00 mg/L, 0.0~400.0% -5.0~120.0°C /23.0~248.0°F	0.00~40.00 mg/L, 0.0~400.0% -5.0~120.0°C /23.0~248.0°F
Resolution	0.01mg/L, 0.1%, 0.1°C/0.1°F	0.01mg/L, 0.1%, 0.1°C/0.1°F
Accuracy	±1.5% F.S., ±0.3°C/±0.5°F	±1.5% F.S., ±0.3°C/±0.5°F
Calibration	Auto / Manual	Auto / Manual
Salinity Compensation	0.0~45.0 ppt	0.0~45.0 ppt
Temperature Compensation	Auto / Manual	Auto / Manual
Atmospheric Pressure Compensation	450~800mmHg / 0.600~1.100bar	450~800mmHg / 0.600~1.100bar
Pipeline Pressure Compensation	0.00~1.00 Kg	0.00~1.00 Kg
Liquid Depth Compensation	0.0~10.0 m	0.0~10.0 m
Memory	100 sets	100 sets
Auto Power Off	10 minutes no key is pressed	10 minutes no key is pressed
Communication interfaces	USB	USB
Power Supply	2x1.5V AA	100~240 VAC
Ingress Protection	IP67	IP54
Size	73x152x42mm	150x194x56mm
Weight	250g	1.0Kg
Electrodes / Accessories	See P.34	

Calibration Reminder

- Calibration cycle can be customize prompt for each measurement mode.

Calibration Recorder

- Calibration point, date, slope can be record for each measurement mode.

1000 sets memory

- Up-to 1000 sets data memory (pH500 / mV250 / ION250 sets)

Button Keypad

- Easy to operate.

Date and Time

- Date and time functions, can be change the arrangement.

Wide Range

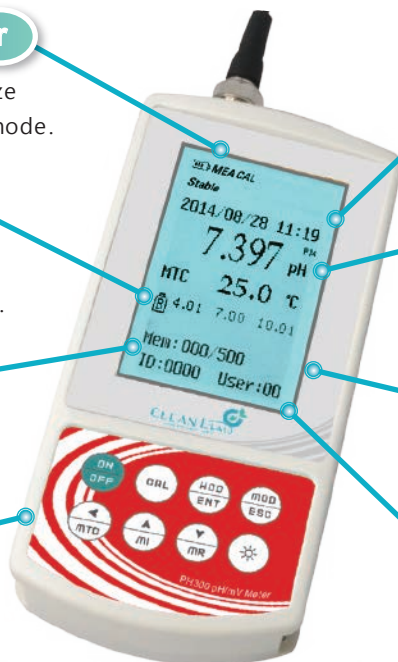
- PH : -2.000~20.000
- mV : -2000.0~2000.0
- ION : 0.000~9999 mg/L

Large Backlit Screen

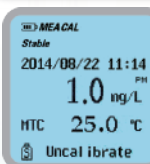
- Dot-matrix background illumination screen.

Sample ID / User ID

- Sample ID / User ID can be customize setting.

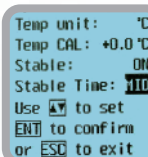


ION Measurement



- PH310 / PH610 series.
- Use ION selective electodes for measurement.
- Up-to 7 point calibration.
- High resolution up to 0.001mg/L.

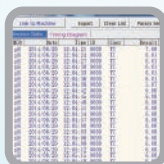
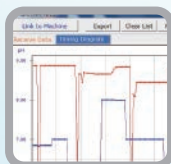
Data Stability Function



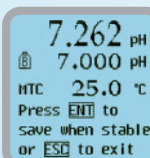
- The data stability function can select slow / medium / fast.

USB Interface

- Data transfer software by USB2.0 connect to PC.



Interactive Smart Menu



- Set to follow the screen prompts.

Password



- password protection prevents unauthorized tempering of setting.



Water Measurement Tester

pH / ION Portable & Bench-top Meter

Feature

PH300/600 series are idea for numerous applications including process plants, production facilities, the food industry, research, education and environmental monitoring.

All PH300/600 meters support with immensely wide measuring range, high resolution, multi-stage calibration slope, 3-stage data stability, to provide reliable result. And user-friendly design for dot-matrix background illumination screen, interactive smart menu, sample ID, user ID,time and date, 1000 sets data memory, calibration reminder prompt and data transfer by USB interface connect to PC that easy to operate.

PH300/600 is future oriented in many respects and greatly simplifies your work.

PH300

PH310

PH600

PH610



Specifications	PH300	PH310	PH600	PH610
pH/mV Test Range	-2.000~20.000pH / -2000.0~2000.0mV		-2.000~20.000pH / -2000.0~2000.0mV	
pH/mV Accuracy	±0.2% F.S. ±3LSD / ±0.1% F.S. ±3LSD		±0.2% F.S. ±3LSD / ±0.1% F.S. ±3LSD	
ION Test Range	—	0.000~9999 mg/L	—	0.000~9999 mg/L
ION Accuracy	—	±0.5% F.S. ±3LSD	—	±0.5% F.S. ±3LSD
Temperature Range/Accuracy	-10.0~120.0°C / 14.0~248.0°F ; ±0.3°C/±0.5°F		-10.0~120.0°C / 14.0~248.0°F ; ±0.3°C/±0.5°F	
Temperature compensation	Auto / Manual		Auto / Manual	
pH/mV Calibration	pH up to 5 points / ORP 1 points		pH up to 5 points / ORP 1 points	
pH Reference System	USA / NIST / DIN Select		USA / NIST / DIN Select	
ION Calibration	—	ION up to 7 points	—	ION up to 7 points
Calibration Remind	0~60 Days		0~60 Days	
Memory	750 sets	1000 sets	750 sets	1000 sets
Auto Power Off	10 minutes no key is pressed		10 minutes no key is pressed	
Data stability	slow / medium / fast		slow / medium / fast	
Password	4-digit password		4-digit password	
Sample ID	4-digit		4-digit	
User ID	2-digit		2-digit	
Date system	YY/MM/DD ; MM/DD/YY ; DD/MM/YY		YY/MM/DD ; MM/DD/YY ; DD/MM/YY	
Time system	12H / 24H		12H / 24H	
Communication interfaces	USB		USB	
Data hold	ON / OFF		ON / OFF	
Temperature offset correction	±5.0°C / ±9.0°F Adjustable		±5.0°C / ±9.0°F Adjustable	
Power/Size/Weight	AAx2 / 73x152x42mm / 250g		100~240VAC / 150x194x56mm / 1.0Kg	
Electrodes / Accessories	See P.34			

User ID

- Two level password protections prevent unauthorized tempering of setting.

Output



- Real time measurement data transmission 0/4~20mA.
- RS485 Interface communication.

Open-back Design

- Waterproof and dustproof, easy to install.



Housing

- Waterproof and dustproof in accordance with IP65, NEMA4X enclosures type.

Large LCD Screen



- large LCD with background illumination screen.

Button Keypad



- Scratch-button panel design.
- Sensitive key, easy to operate.

5000 series

- Installation size : 93.5x93.5 mm

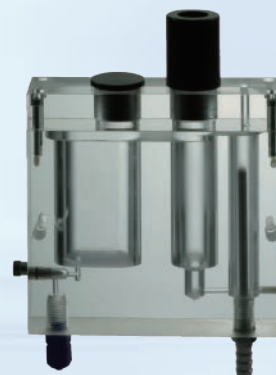


All controller built-in micro processor and equipped the best function and specification with appropriate electrodes assembly to continuously measuring and controller pH/ORP, Conductivity, DO, Free Chlorine, Ozone.

Application field including environmental water, municipal water and waste water treatment, chemical, pharmaceutical, food & beverage and swimming pool etc... which water quality monitoring process necessary.

Industrial Flow Cell

- For FCL & DOZ series (Free Chlorine & Ozone) controller.
- Keep the samples and air isolation to provide accurately and reliable end result.





6000 series

- Installation size : 138x138mm

Backlight Sensor

- Auto/Manual adjustable background illumination.

Simple Design Contacts



- Easy to install construction.

RELAY

- Two separately adjustable mechanical relays for high and low set-point (HIHI, LOLO, HILO).
- Adjustable hysteresis (dead bands) timing to prevent frequent chattering of relays around the set-point.

PLC Control

- PLC are designed for multiple analogue and digital input and output arrangements, extended temperature ranges, immunity to electrical noise and resistance to vibration and impact.

Self-Cleaning

- 5000 / 5500 / 6000 series.
- Self-cleaning relays, user adjustable self-cleaning frequency and timing to extend electrode life.

5500 series

Wall-mounts Type

- Waterproof and dustproof, easy to mount on the wall.

pH/mV Measurement

- PH series can use for ORP measuring.



Feature

- ※ Application : For monitoring of Industrial Process, Wastewater measurements, Pharmaceutical, Chemical and Food & Beverage industries.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 waterproof, dust proof.
- ※ Provide precise measurement at industrial site or water treatment process.
- ※ Symmetric signal output interface, preventing electromagnetic interference.
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two level password protections prevent unauthorized of setting.
- ※ Large LCD with background illumination screen.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

PH3000



PH5000



PH5500



Specifications	PH3000	PH5000	PH5500
pH Range	-2.00~16.00 pH	-2.00~16.00 pH	-2.00~16.00 pH
Resolution / Accuracy	0.01pH / ±0.01pH	0.01pH / ±0.01 pH	0.01pH / ±0.01 pH
pH Standard Buffer	USA / NIST	USA / NIST	USA / NIST
pH Calibration	1 or 2 point	1 or 2 point	1 or 2 point
ORP Range	-2000~2000 mV	-2000~2000 mV	-2000~2000mV
Resolution	1 mV	1 mV	1 mV
Accuracy	±1 mV	±1 mV	±1 mV
Temperature Range	-9.9~130.0°C	-9.9~130.0°C	-9.9~130.0°C
Resolution / Accuracy	0.1°C / ±0.5°C	0.1°C / ±0.5°C	0.1°C / ±0.5°C
Temperature Sensor	PT1000	PT1000	PT1000
Temperature Compensation	Auto / Manual	Auto / Manual	Auto / Manual
pH Electrode	Standard pH or Antimony electrode	Standard pH or Antimony electrode	Standard pH or Antimony electrode
Signal Input	Symmetrical / Asymmetrical	Symmetrical / Asymmetrical	Symmetrical / Asymmetrical
Analog Output	0 / 4~20 mA	0 / 4~20 mA	0 / 4~20 mA
Serial Interface	—	RS-485	RS-485
Relay Specification	2 SPST / 250V 1A	3 SPST / 250V 1A	3 SPST / 250V 1A
Frequency of Cleaning Time	—	1~999hours / 1~999sec	1~999hours / 1~999sec
Control hysteresis band	0.01~2.00 pH / 1~200 mV	0.01~2.00pH / 1~200mV	0.01~2.00pH / 1~200mV
EMC Standard	EN50081-1 / EN50082-1	EN50081-1 / EN50082-1	EN50081-1 / EN50082-1
Operation Temperature	-10.0~50.0°C (14.0~122.0°F)	-10.0~50.0°C (14.0~122.0°F)	-10.0~50.0°C (14.0~122.0°F)
Operation Humidity	10~95%	10~95%	10~95%
Power Supply	220 / 110 VAC	220 / 110 VAC	220 / 110 VAC
Size / Weight	100x108x150mm / 900g	100x108x150mm / 900g	190x160x133mm / 1.5Kg
Installation Size	93.5x93.5mm	93.5x93.5mm	—
Electrodes / Accessories	See P36		

Water Measurement Controller

Conductivity / TDS / Salinity Controller

Feature

- ※ Application : For monitoring of Industrial Process and Pure water conductivity/resistivity.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 waterproof, dust proof.
- ※ Provide precise measurement at industrial site or water treatment process.
- ※ Symmetric signal output interface, preventing electromagnetic interference.
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two level password protections prevent unauthorized of setting.
- ※ Large LCD with background illumination screen.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

CON5000



CON5500



Specifications	CON5000	CON5500
Conductivity Range	0.000~3.000 / 30.00 / 300.0uS/cm 0.000~3.000 / 30.00 / 300.0mS/cm	0.000~3.000 / 30.00 / 300.0uS/cm 0.000~3.000 / 30.00 / 300.0mS/cm
Resistivity Range	0.3~30.0MΩ*cm / 3~300.0MΩ*cm	0.3~30.0MΩ*cm / 3~300.0MΩ*cm
TDS Range	0.000~3.000 / 30.00 / 300.0ppm / 0.000~3.000 / 30.00 / 300.0ppt	0.000~3.000 / 30.00 / 300.0ppm / 0.000~3.000 / 30.00 / 300.0ppt
Resolution	0.001 / 0.01 / 0.1uS/cm, 0.001 / 0.01 0.1mS/cm, 0.1MΩ*cm	0.001 / 0.01 / 0.1uS/cm, 0.001 / 0.01 0.1mS/cm, 0.1MΩ*cm
Accuracy	±1%F.S.	±1%F.S.
Temperature Range	-5.0~130.0°C	-5.0~130.0°C
Resolution / Accuracy	0.1°C / ±0.5°C	0.1°C / ±0.5°C
Cell Constant	K=0.01 / 0.1 / 1 / 10 (With specified electrode)	K=0.01 / 0.1 / 1 / 10 (With specified electrode)
Temperature Sensor	PT1000	PT1000
Analog Output	0 / 4~20 mA	0 / 4~20 mA
Serial Interface	RS-485	RS-485
Relay Specification	3 SPST / 250V 1A	3 SPST / 250V 1A
Frequency of Cleaning Time	1~999hours / 1~999sec	1~999hours / 1~999sec
Control hysteresis band	0.1~10%F.S.	0.1~10%F.S.
EMC Standard	EN50081-1 / EN50082-1	EN50081-1 / EN50082-1
Operation Temperature	-10.0~50.0°C (14.0~122.0°F)	-10.0~50.0°C (14.0~122.0°F)
Operation Humidity	10~95%	10~95%
Power Supply	220 / 110 VAC	220 / 110 VAC
Size / Weight	100x108x150mm / 900g	190x160x133mm / 1.5kg
Installation Size	93.5x93.5mm	—
Electrodes / Accessories	See P.36	

Feature

- ※ Applications : Ranging from water treatment monitoring to Pharmaceutical and Food processing Industries.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 water proof, dust proof.
- ※ Provide precise measurement at industrial site or water treatment process.
- ※ Symmetric signal output interface, preventing electromagnetic interference.
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two level password protections prevent unauthorized of setting.
- ※ Large LCD with background illumination screen.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

DO5000



DO5200



DO5500



Specifications	DO5000	DO5200	DO5500
Range	0.00~40.00 mg/L 0.0~400.0%	0.00~40.00 mg/L 0.0~400.0%	0.00~40.00 mg/L 0.0~400.0%
Resolution / Accuracy	0.01ppm, 0.1% / $\pm 2\%$ F.S.	0.01ppm, 0.1% / $\pm 2\%$ F.S.	0.01ppm, 0.1% / $\pm 2\%$ F.S.
Calibration	1 point (100% Saturated) or 2 point (100% and 0% Saturated)	1 point (100% Saturated) or 2 point (100% and 0% Saturated)	1 point (100% Saturated) or 2 point (100% and 0% Saturated)
Temperature Range	-5.0 ~ 100.0°C	-5.0 ~ 100.0°C	-5.0 ~ 100.0°C
Temperature Compensation	Auto / Manual	Auto / Manual	Auto / Manual
Resolution/Accuracy	0.1°C / $\pm 0.5^\circ\text{C}$	0.1°C / $\pm 0.5^\circ\text{C}$	0.1°C / $\pm 0.5^\circ\text{C}$
Electrode Type	Galvanic / Clark	Galvanic / Clark	Galvanic / Clark
Salinity Compensation	0.0~45.2 ppt	0.0~45.2 ppt	0.0~45.2 ppt
Control Type	ON/OFF Control (LIT)	ON/OFF Control (LIT)	ON/OFF Control (LIT)
Analog Output	0 / 4~20 mA	0 / 4~20 mA	0 / 4~20 mA
Serial Interface	RS-485	RS-485	RS-485
Relay Specification	3 SPST / 250V 1A	3 SPST / 250V 1A	3 SPST / 250V 1A
Frequency of Cleaning Time	1~999hours / 1~999 sec	1~999hours / 1~999 sec	1~999hours / 1~999 sec
Control Hysteresis Band	0.01~2.00ppm / 0.1~20%	0.01~2.00ppm / 0.1~20%	0.01~2.00ppm / 0.1~20%
Temperature System	NTC22K	NTC22K	NTC22K
EMC Standard	EN50081-1 / EN50082-1	EN50081-1 / EN50082-1	EN50081-1 / EN50082-1
Operation Temperature	-10.0~50.0°C (14.0~122.0°F)	-10.0~50.0°C (14.0~122.0°F)	-10.0~50.0°C (14.0~122.0°F)
Operation Humidity	10~95%	10~95%	10~95%
Pipeline Pressure Compensation	—	0.00~4.00 Kg	0.00~4.00 Kg
Liquid Depth Compensation	—	0.0~10.0 m	0.0~10.0 m
Power Supply	220 / 110 VAC	220 / 110 VAC	220 / 110 VAC
Size / Weight	100x108x150mm / 900g	100x108x150mm / 900g	190x160x133mm / 1.5Kg
Installation Size	93.5x93.5mm	93.5x93.5mm	—

Electrodes / Accessories

See P.36

Water Measurement Controller

Free Chlorine Controller

Feature

- ※ Applications: Widely used in food & beverage, bottling, drinking water, wastewater, scrubbers, pulp & paper, RO systems, swimming pools, therapy pools and aquariums.
- ※ Use three-electrode sensor to measure free chlorine faster and accurate, matching up to DPD result. Panel mounted type.
- ※ Measured value not affected by low temperature or turbidity.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 water proof, dust proof.
- ※ Provide precise measurement at industrial site or water treatment process.
- ※ Large LCD with background illumination screen.
- ※ Symmetric signal output interface, preventing electromagnetic interference.
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two level password protections prevent unauthorized of setting.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

FCL5000



FCL5500



Specifications	FCL5000	FCL5500
Range	0.000~2.000ppm / 0.00~20.00ppm	0.000~2.000ppm / 0.00~20.00ppm
Resolution	0.001ppm / 0.01ppm	0.001ppm / 0.01ppm
Accuracy	±2%F.S.	±2%F.S.
Calibration	1 point (0%) or 2 point (0% and DPD Value)	1 point (0%) or 2 point (0% and DPD Value)
Temperature Range	-5.0~100.0°C	-5.0~130.0°C
Resolution/Accuracy	0.1°C / ±0.5°C	0.1°C / ±0.5°C
Electrode Type	Three-electrode sensor	Three-electrode sensor
Analog Output	0 / 4~20 mA	0 / 4~20 mA
Serial Interface	RS-485	RS-485
Relay Specification	3 SPST / 250V 1A	3 SPST / 250V 1A
Frequency of Cleaning Time	1~999hours / 1~999 sec	1~999hours / 1~999 sec
Control Hysteresis Band	0.01~2.00ppm / 0.1~20.0%	0.01~2.00pH / 1~200mVA
Temperature System	NTC22K	NTC22K
EMC Standard	EN50081-1 / EN50082-1	EN50081-1 / EN50082-1
Operation Temperature	-10.0~50.0°C (14.0~122.0°F)	-10.0~50.0°C (14.0~122.0°F)
Operation Humidity	10~95%	10~95%
Power Supply	220 / 110 VAC	220 / 110 VAC
Size/Weight	100x108x150mm / 900g	190x160x133mm / 1.5Kg
Installation Size	93.5x93.5mm	—

Electrodes / Accessories

See P37

Feature

- ※ Applications: Widely used in food & beverage, bottling, drinking water, wastewater, scrubbers, pulp & paper, RO systems, swimming pools, therapy pools and aquariums.
- ※ Use three-electrode sensor to measure free chlorine faster and accurate, matching up to DPD result. Panel mounted type.
- ※ Measured value not affected by low temperature or turbidity.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 waterproof, dust proof.
- ※ Provide precise measurement at industrial site or water treatment process.
- ※ Large LCD with background illumination screen.
- ※ Symmetric signal output interface, preventing electromagnetic interference.
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two level password protections prevent unauthorized of setting.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

DOZ5000



DOZ5500



Specifications	FCL5000	FCL5500
Range	0.000~2.000ppm / 0.00~20.00ppm	0.000~2.000ppm / 0.00~20.00ppm
Resolution	0.001ppm / 0.01ppm	0.001ppm / 0.01ppm
Accuracy	±2%F.S.	±2%F.S.
Calibration	1 point (0%) or 2 point (0% and DPD Value)	1 point (0%) or 2 point (0% and DPD Value)
Temperature Range	-5.0~100.0°C	-5.0~100.0°C
Resolution/Accuracy	0.1°C / ±0.5°C	0.1°C / ±0.5°C
Electrode Type	Three-electrode sensor	Three-electrode sensor
Analog Output	0 / 4~20 mA	0 / 4~20 mA
Serial Interface	RS-485	RS-485
Relay Specification	3 SPST / 250V 1A	3 SPST / 250V 1A
Control Hysteresis Band	1 ~ 999hours / 1 ~ 999 sec	1 ~ 999hours / 1 ~ 999 sec
Frequency of Cleaning Time	0.01~2.00ppm / 0.1~20.0%	0.01~2.00pH / 1~200mVA
Temperature System	NTC22K	NTC22K
EMC Standard	EN50081-1 / EN50082-1	EN50081-1 / EN50082-1
Operation Temperature	-10.0~50.0°C (14.0~122.0°F)	-10.0~50.0°C (14.0~122.0°F)
Operation Humidity	10~95%	10~95%
Power Supply	220 / 110 VAC	220 / 110 VAC
Size/Weight	100x108x150mm / 900g	190x160x133mm / 1.5Kg
Installation Size	93.5x93.5mm	—

Electrodes / Accessories

See P.37

Water Measurement Controller

pH / ORP Controller

Feature

- ※ Application : For monitoring of Industrial Process, Wastewater measurements, Pharmaceutical, Chemical and Food & Beverage industries.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 waterproof, dust proof.
- ※ Providing grounding function, prevent sample charged interference.
- ※ Large LCD with background illumination screen.
- ※ Password protections prevent unauthorized of setting.
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.

PH 6000



Specifications	PH6000
pH Range	0.00~14.00pH
pH Resolution /Accuracy	0.01pH / ±0.01 pH±1Digit
ORP Range	-1999~+1999 mV
ORP Resolution	1 mV
ORP Accuracy	±0.1%±1Digit
Temperature Range	-10.0~110.0°C
Temperature Resolution /Accuracy	0.1°C / ±0.2°C±1Digit
Temperature Compensation	Auto : Pt1000 / NTC30K ; Manual
Signal Input	>10 ¹² Ω
Analog Output	2 sets 0/4~20mA
Relay Specification	2 SPST / 240VAC 0.5A
Operation Temperature	0~50°C
Power supply	100~240VAC±10% · 50/60Hz
Size/Weight	144mmx144mmx115mm / 800g
Installation Size	138mmx138mm
Electrodes / Accessories	See P.36

Feature

- ※ Application : For monitoring of Industrial Process, Wastewater measurements, Pharmaceutical, Chemical and Food & Beverage industries.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 waterproof, dust proof.
- ※ Providing grounding function, prevent sample charged interference.
- ※ Large LCD with Auto/Manual background illumination screen.
- ※ Password protections prevent unauthorized of setting.
- ※ RS-485 interface communication (PH6300、PH6400).
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

PH 6100



PH 6200



PH 6300



PH 6400

Specifications	PH 6100	PH 6200	PH 6300	PH 6400
pH Range	-2.00~16.00pH			
pH Resolution / Accuracy	0.01pH / ±0.01 pH±1Digit			
ORP Range	-1999~+1999 mV			
ORP Resolution	1 mV			
ORP Accuracy	±0.1%±1Digit			
Temperature Range	-30.0~130.0°C			
Temperature Resolution / Accuracy	0.1°C / ±0.2°C±1Digit			
Temperature Compensation	Auto : Pt1000/NTC30K ; Manual			
Signal Input	$>10^{12}\Omega$			
Analog Output	2 sets 0/4~20mA		1 set 0/4~20mA	
Serial Interface	—		RS-485	
Relay Specification	2 SPST / 240VAC 0.5A			
Frequency of Cleaning Time	ON 0~9999 sec / OFF 0~999.9 hours			
Operation Temperature	0~50°C			
Power supply	100~240VAC±10% · 50/60Hz	20~30VDC	100~240VAC±10% · 50/60Hz	20~30VDC
Size/Weight	144mmx144mmx115mm / 800g			
Installation Size	138mmx138mm			
Electrodes / Accessories	See P39			

Water Measurement Controller

Conductivity / TDS / Salinity Controller

Feature

- ※ Application : For monitoring of Industrial Process and Pure water conductivity/resistivity.
- ※ With 4-Electrode Conductivity Sensor.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 waterproof, dust proof.
- ※ Providing grounding function, prevent sample charged interference.
- ※ Large LCD with Auto/Manual background illumination screen.
- ※ Password protections prevent unauthorized of setting.
- ※ RS-485 interface communication (CON6300、CON6400).
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

CON 6100



CON 6200



CON 6300



CON 6400

Specifications	CON 6100	CON 6200	CON 6300	CON 6400
Conductivity Range	0.000uS/cm~200.0mS/cm			
Conductivity Resolution	0.001uS/cm			
Resistivity Range	0.00M%*cm~20.00M%*cm			
Resistivity Resolution	0.01M%*cm			
Salinity Range	0.0ppt~70.0ppt			
Salinity Resolution	0.1ppt			
Accuracy	±0.1%±1Digit			
Temperature Range	-30.0~130.0℃			
Temperature Resolution/Accuracy	0.1℃ / ±0.2℃±1Digit			
Cell Constant	0.01 , 0.1 , 1 , 10.00 1/cm or 0.0050~19.99 1/cm adjustable			
Temperature Compensation	Auto : Pt1000/NTC30K ; Manual : Nonlinear			
Temperature Constant	Conductivity : Linear (0.00%~20.00%) or Nonlinear ; Resistivity : Nonlinear			
Analog Output	2 sets 0/4~20mA		1 sets 0/4~20mA	
Serial Interface	—		RS-485	
Relay Specification	2SPST / 240VAC 0.5A			
Frequency of Cleaning Time	ON 0~9999 sec / OFF 0~999.9 hours			
Operation Temperature	0~50℃			
Power Supply	100~240VAC±10% · 50/60Hz	20~30VDC	100~240VAC±10% · 50/60Hz	20~30VDC
Size / Weight	144mmx144mmx115mm / 800g			
Installation Size	138mmx138mm			
Electrodes / Accessories	See P.36			

Feature

- ※ Applications : Ranging from water treatment monitoring to Pharmaceutical and Food processing Industries.
- ※ With Optical Dissolved Oxygen Sensor.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 water proof, dust proof.
- ※ Providing grounding function, prevent sample charged interference.
- ※ Large LCD with Auto/Manual background illumination screen.
- ※ Password protections prevent unauthorized of setting.
- ※ RS-485 interface communication (LDO6300、LDO6400).
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

LDO 6100



LDO 6200



LDO 6300



LDO 6400

Specifications	LDO 6100	LDO 6200	LDO 6300	LDO 6400
Range	0~200% , 0.00~19.99 mg/L , 0.00~19.99 ppm			
Resolution	0.01% , 0.01 mg/L , 0.01 ppm			
Accuracy	±3%±1Digit of reading			
Temperature Range	-30.0~130.0℃			
Temperature Resolution / Accuracy	0.1℃ / ±0.2℃±1Digit			
Temperature Compensation	Auto			
Pressure Compensation	0.500~2.500bar or 7.25~36.25psi Manual			
Analog Output	2 sets 0/4~20mA		1 set 0/4~20mA	
Serial Interface	—		RS-485	
Relay Specification	2SPST / 240VAC 0.5A			
Frequency of Cleaning Time	ON 0~9999 sec / OFF 0~999.9 hours			
Operation Temperature	0~50℃			
Power Supply	100~240VAC±10% · 50/60Hz	20~30VDC	100~240VAC±10% · 50/60Hz	20~30VDC
Size / Weight	144mmx144mmx115mm / 800g			
Installation Size	138mmx138mm			
Electrodes / Accessories	See P38			

Water Measurement Controller

Dissolved Oxygen Controller

Feature

- ※ Applications : Ranging from water treatment monitoring to Pharmaceutical and Food processing Industries.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 water proof, dust proof.
- ※ Providing grounding function, prevent sample charged interference.
- ※ Large LCD with Auto/Manual background illumination screen.
- ※ Password protections prevent unauthorized of setting.
- ※ RS-485 interface communication (DO6300 、 DO6400).
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

DO 6100



DO 6200



DO 6300



DO 6400

Specifications	DO 6100	DO 6200	DO 6300	DO 6400
Range	0~200% , 0.00~19.99 mg/L , 0.00~19.99 ppm			
Resolution	0.01% , 0.01 mg/L , 0.01 ppm			
Accuracy	±0.5% of reading ±1Digit			
Temperature Range	-30.0~130.0°C (depends on sensor)			
Temperature Resolution / Accuracy	0.1°C / ±0.2°C±1Digit			
Pressure Compensation	Auto : 0~50 NTC30K/NTC22K ; Manual			
Salinity Compensation	0.0~45.0ppt			
Pressure Compensation	0.500~2.500bar or 7.25~36.25psi Manual			
Analog Output	2 sets 0/4~20mA		1 set 0/4~20mA	
Serial Interface	—		RS-485	
Relay Specification	2SPST / 240VAC 0.5A			
Frequency of Cleaning Time	ON 0~9999 sec / OFF 0~999.9 hours			
Operation Temperature	0~50°C			
Power Supply	100~240VAC±10% · 50/60Hz	20~30VDC	100~240VAC±10% · 50/60Hz	20~30VDC
Size / Weight	144mmx144mmx115mm / 800g			
Installation Size	138mmx138mm			
Electrodes / Accessories	See P.37			

Feature

- ※ Application : For monitoring of Industrial Process, Wastewater measurements, Pharmaceutical, Chemical and Food & Beverage industries.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 water proof, dust proof.
- ※ Providing grounding function, prevent sample charged interference.
- ※ Large LCD with Auto/Manual background illumination screen.
- ※ Password protections prevent unauthorized of setting.
- ※ RS-485 interface communication (ION6300、ION6400).
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

ION 6100



ION 6200



ION 6300



ION 6400

Specifications	ION 6100	ION 6200	ION 6300	ION 6400
Range	0.00~1999.9(ppm・mg/L) / -1999.9~1999.9mV			
Resolution	1/0.1/0.01(ppm・mg/L) / 0.1mV			
Accuracy	±0.06%±1Digit			
Temperature Range	-30.0~130.0°C			
Temperature Resolution / Accuracy	0.1°C / ±0.2°C±1Digit			
Reproducibility	±0.05% / ±10% of reading (depends on ISE or sample)			
Average Time Signals	0~60 sec adjustable / preset30			
Temperature Compensation	Auto : Pt1000/ NTC30K ; Manual			
Calibration	2-3 points・Offset value (13 section optional)			
Signal Input	$>10^{12}\Omega$			
Analog Output	2 sets 0/4~20mA		1 set 0/4~20mA	
Serial Interface	—		RS-485	
Relay Specification	2SPST / 240VAC 0.5A			
Frequency of Cleaning Time	ON 0~9999 sec / OFF 0~999.9 hours			
Operation Temperature	0~50°C			
Power Supply	100~240VAC±10%・ 50/60Hz	20~30VDC	100~240VAC±10%・ 50/60Hz	20~30VDC
Size / Weight	144mmx144mmx115mm / 800g			
Installation Size	138mmx138mm			

Water Measurement Controller

Turbidity / SS / MLSS Controller

Feature

- ※ Application : Water and wastewater treatment, drinking water and surface water monitoring, chemical process, recycling water, and scrubber.
- ※ 90-degree of the optical detection principle.
- ※ Color and bubbles without interference, build in self-clean system.
- ※ 5-points calibration, single-point calibration can be analyzed based on laboratory or field.
- ※ Stainless steel housing and hard to scratch lenses.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 water proof, dust proof.
- ※ Providing grounding function, prevent sample charged interference.
- ※ Large LCD with Auto/Manual background illumination screen.
- ※ Password protections prevent unauthorized of setting.
- ※ RS-485 interface communication (TS6300、TS6400).
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

TS 6100



TS 6200



TS 6300



TS 6400

Specifications	TS 6100	TS 6200	TS 6300	TS 6400
Range	Turbidity / Suspended Solid(SS) / (MLSS)			
Turbidity Unit	NTU , FTU , FNU			
SS Unit	ppm , mg/L			
MLSS Unit	g/L			
Turbidity Range	0.00~20.00 , 20.0~100.0 / 0.0~200.0 , 200~500 / 0~3000 NTU (depends on sensor)			
SS Range	0~1000 mg/L			
MLSS Range	0.0~50.0 g/L			
Resolution	Auto (0.01 , 0.1 , 1)			
Analog Output	2 sets 0/4~20mA		1 set 0/4~20mA	
Serial Interface	—		RS-485	
Relay Specification	2SPST / 240VAC 0.5A			
Frequency of Cleaning Time	ON 0~9999 sec / OFF 0~999.9 hours			
Operation Temperature	0~50°C			
Power Supply	100~240VAC±10% · 50/60Hz	20~30VDC	100~240VAC±10% · 50/60Hz	20~30VDC
Size / Weight	144mmx144mmx115mm / 800g			
Installation Size	138mmx138mm			
Electrodes / Accessories	See P.39			

Feature

- ※ Application : Water and wastewater treatment, drinking water and surface water monitoring, chemical process, recycling water, and scrubber.
- ※ Infrared optical detection principle.
- ※ Color and bubbles without interference, build in self-clean system.
- ※ Single-point calibration can be analyzed based on laboratory or field.
- ※ Stainless steel housing and hard to scratch lenses.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 water proof, dust proof.
- ※ Providing grounding function, prevent sample charged interference.
- ※ Large LCD with Auto/Manual background illumination screen.
- ※ Password protections prevent unauthorized of setting.
- ※ RS-485 interface communication (SS6300、SS6400).
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

SS 6100

SS 6200

SS 6300

SS 6400

MLSS 6100

MLSS 6200

MLSS 6300

MLSS 6400



Specifications	SS 6100 (MLSS 6100)	SS 6200 (MLSS 6200)	SS 6300 (MLSS 6300)	SS 6400 (MLSS 6400)
Mode	Suspended Solid(SS) / (MLSS)			
SS Unit	ppm , mg/L			
MLSS Unit	mg/L , g/L			
Range	SS : 0~19999 mg/L ; MLSS : 0~19999 mg/L , 20.00 g/L~150.00 g/L			
Resolution	SS : 1 mg/L ; MLSS : Auto (1 mg/L , 0.01 g/L)			
Analog Output	2 sets 0/4~20mA		1 set 0/4~20mA	
Serial Interface	—		RS-485	
Relay Specification	2SPST / 240VAC 0.5A			
Frequency of Cleaning Time	ON 0~9999 sec / OFF 0~999.9 hours			
Operation Temperature	0~50℃			
Power Supply	100~240VAC±10% · 50/60Hz	20~30VDC	100~240VAC±10% · 50/60Hz	20~30VDC
Size / Weight	144mmx144mmx115mm / 800g			
Installation Size	138mmx138mm			
Electrodes / Accessories	See P39			

Feature

- ※ Application : Water and wastewater treatment, drinking water and surface water monitoring, chemical process, recycling water, and scrubber.
- ※ Infrared optical detection principle.
- ※ Color and bubbles without interference, build in self-clean system.
- ※ 5-points calibration, single-point calibration can be analyzed based on laboratory or field.
- ※ Stainless steel housing and hard to scratch lenses.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 water proof, dust proof.
- ※ Providing grounding function, prevent sample charged interference.
- ※ Large LCD with Auto/Manual background illumination screen.
- ※ Password protections prevent unauthorized of setting.
- ※ RS-485 interface communication (TU6300、TU6400).
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

TU 6100



TU 6200



TU 6300



TU 6400

Specifications	TU 6100	TU 6200	TU 6300	TU 6400
Mode	Turbidity			
Unit	NTU , FTU , FNU			
Range	0.00~20.00 , 20.0~200.0 , 200~5000 NTU			
Resolution	AUTO(0.01 , 0.1 , 1)			
Analog Output	2 sets 0/4~20mA		1 set 0/4~20mA	
Serial Interface	—		RS-485	
Relay Specification	2SPST / 240VAC 0.5A			
Frequency of Cleaning Time	ON 0~9999 sec / OFF 0~999.9 hours			
Operation Temperature	0~50℃			
Power Supply	100~240VAC±10% · 50/60Hz	20~30VDC	100~240VAC±10% · 50/60Hz	20~30VDC
Size / Weight	144mmx144mmx115mm / 800g			
Installation Size	138mmx138mm			
Electrodes / Accessories	See P39			

Feature

- ※ Applications: Widely used in food & beverage, bottling, drinking water, wastewater, scrubbers, pulp & paper, RO systems, swimming pools, therapy pools and aquariums.
- ※ Connect pH sensor for pH compensation at the same time.
- ※ Panel or Wall mounts Enclosures, NEMA4X, IP65 water proof, dust proof.
- ※ Providing grounding function, prevent sample charged interference.
- ※ Large LCD with Auto/Manual background illumination screen.
- ※ Password protections prevent unauthorized of setting.
- ※ RS-485 interface communication (CH6300 · CH6400).
- ※ Scaleable isolated output: 0/4~20mA.
- ※ Two separate mechanical relays for high and low (HH/HL/LL) setpoints.
- ※ Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set point.
- ※ The third mechanical relays for electrode self-cleaning or alarm.

CH 6100



CH 6200



CH 6300



CH 6400

Specifications	CH 6100	CH 6200	CH 6300	CH 6400
Mode	Residual(Free) Chlorine / pH / Temperature			
FCL Range	0.00~10.00ppm(mg/L)			
FCL Resolution / Accuracy	0.01ppm(mg/l) / ±0.5%±1Digit			
pH Range	0.00~14.00pH			
pH Resolution / Accuracy	0.01pH / ±0.01pH±1Digit			
Temperature Range	-30.0~130.0°C			
Temperature Resolution / Accuracy	0.1°C / ±0.5%±1Digit			
Temperature Compensation	NTC30K / PT1000 / Manual			
Storage temperature	-20~70°C			
Analog Output	2 sets 0/4~20mA		1 set 0/4~20mA	
Serial Interface	—		RS-485	
Relay Specification	2SPST / 240VAC 0.5A / PID control optional			
Flow Control	Flow control sensor (optional)			
Frequency of Cleaning Time	ON 0~9999 sec / OFF 0~999.9 hours			
Operation Temperature	0~50°C			
Power Supply	100~240VAC±10% · 50/60Hz	20~30VDC	100~240VAC±10% · 50/60Hz	20~30VDC
Size / Weight	144mmx144mmx115mm / 800g			
Installation Size	138mmx138mm			
Electrodes / Accessories	See P.38			

Laboratory pH Electrodes

CS1210

Type: 2 in 1 pH electrode
Material: PVC
Test Range: 0 ~ 14pH
Temperature Range: 0 ~ 60°C
Junction: Ceramic Junction
Reference System: Ag/AgCl
Electrolyte: 3mol KCL+AgCl
Cable:1M/BNC



CS1010

Type: 2 in 1 pH electrode
Material: PPS
Test Range: 0 ~ 14pH
Temperature Range: 0 ~ 80°C
Junction: Ceramic Junction
Reference System: Ag/AgCl
Electrolyte: 3 mol KCL+AgCl
Cable:1M/BNC



CS1030

Type: 3 in 1 pH electrode
Material: PPS
Test Range: 0 ~ 14pH
Temperature Range: 0 ~ 80°C
Junction: Ceramic Junction
Temperature System: NTC22K
Reference System: Ag/AgCl
Electrolyte: 3mol KCL+AgCl
Cable:1M/BNC



CS1130

Type: pH electrode
Material: Glass
Test Range: 0 ~ 14pH
Temperature Range: 0 ~ 80°C
Junction: Ceramic Junction
Temperature System: NTC22K
Reference System: Ag/AgCl
Electrolyte: 3mol KCL+AgCl
Cable:1M/BNC



CS1050

Type: 2 in 1 pH electrode
Material: PPS
Test Range: 0 ~ 14pH
Temperature Range: 0 ~ 80°C
Junction: Flat PTFE ring
Electrolyte: 3mol KCL+AgCl
Cable:1M/BNC



CS1111

Type: pH pure water electrode
Material: Glass
Test Range: 2 ~ 12pH
Temperature Range: 0 ~ 60°C
Junction: Diaphragm ring
Electrolyte: 3mol KCL+AgCl
Cable:1M/BNC



CS1437

Type: Antimony electrode pH sensor
Material: PPS
Test Range: 0 ~ 14pH
Temperature Range: 0 ~ 80°C
Junction: Flat PTFE ring
Reference System: Ag/AgCl
Cable:1M/BNC



CT901 (NTC22K)

Type: Temperature probe
Material: Stainless steel
Temperature Range: -10 ~ 120°C
Temperature System: NTC22K
Accuracy: $\pm 0.5^{\circ}\text{C}$
Length: 130mm
Diameter: $\varnothing 4\text{mm}$
Cable: 1M



Laboratory ORP Electrodes

CS2010

Type: ORP electrode
Material: PPS / Platinum
Test Range: $\pm 1000\text{mV}$
Temperature Range: 0 ~ 80°C
Reference System: Ag/AgCl
Junction: Ceramic Junction
Electrolyte: 3mol KCL+AgCl
Cable:1M/BNC



CS2110

Type: ORP electrode
Material: Glass / Platinum
Test Range: $\pm 1000\text{mV}$
Temperature Range: 0 ~ 80°C
Reference System: Ag/AgCl
Junction: Ceramic Junction
Electrolyte: 3mol KCL+AgCl
Cable:1M/BNC



Laboratory Conductivity Electrodes / Accessories

CS3000

Type: Conductivity electrode
Material: PPS/Graphite
Test Range: 0 ~ 50 mS/cm
Temperature Range: 0 ~ 80°C
Temperature System: NTC22K
Cell Constant: K=1.0
Cable: 1M/DIN



CS3010

Type: Conductivity electrode
Material: PPS/Glass
Test Range: 50 ~ 500 mS/cm
Temperature Range: 0 ~ 80°C
Temperature System: NTC22K
Cell Constant: K=10
Cable: 1M/DIN



CS3023

Type: Ultra Pure Water Conductivity electrode
Material: Titanium
Test Range: 0.055 ~ 50 uS/cm
Temperature Range: 0 ~ 80°C
Temperature System: NTC22K
Cell Constant: K=0.01
Cable: 1M/DIN



A550

Type: Flow Cell for Ultra Pure Water Conductivity electrode
Material: POM
Diameter: 1/2"NPT
Size: 50x80x180mm



Laboratory DO Electrodes / Accessories

CS4021L

Type: Galvanic DO electrode
Material: PPS / Titanium
Test Range: 0 ~ 40 mg/L
Temperature System: NTC22K
Temperature Range: 0 ~ 60°C
Cable: 3M/DIN



CS4551L

Type: Clark DO electrode
Material: PPS / Titanium
Test Range: 0 ~ 40 mg/L
Temperature System: NTC22K
Temperature Range: 0 ~ 60°C
Cable: 3M/DIN



CS4021-3H1L

Type: Replacement Membrane Kit
Membrane Cap: 3 pcs
Electrolyte: 1 bottle(30ml)



CS4551-3H1L

Type: Replacement Membrane Kit
Membrane Cap: 3 pcs
Electrolyte: 1 bottle(30ml)



CS4021-1L/5L

Type: Galvanic DO electrode
Capacity: 30ml / 500ml
For: CS4021L



CS4551-1L/5L

Type: Clark DO electrode
Capacity: 30ml / 500ml
For: CS4551L



CS4021-3H

Type: Galvanic DO Membrane Kit
Quantity: 3 pcs



CS4551-3H

Type: Galvanic DO Membrane Kit
Quantity: 3 pcs



CA-SP5

Type: Sandpaper
Quantity: 5 pcs



A530

Type: The flow cell for Free Chlorine Tester FCL30



ION selective electrodes combination

- ※ These electrodes can be used with any conventional laboratory or portable pH meter with a millivolt mode.
- ※ Combination ISE : Solid, Glass, Gas sensing type ISE.
- ※ Mono ISE : Reference electrode required.
- ※ Housing : Glass / Epoxy / PVC , Teflon °
- ※ Size : Ø12x120mm °
- ※ Cable : 1M/BNC (Up to 10M optional).
- ※ Standard solution and ISA are available optional.

ISE Combination



Specifications	Description	Concentration(M)	Limits(ppm)	Temperature Range	pH Range
EI-NH4LS	Ammonium(NH ₄ ⁺)	0.5~5x10 ⁻⁵	9000~0.9	0~50°C	0~8.5pH
EI-Ba2LS	Barium(Ba ²⁺)	10 ⁻¹ ~10 ⁻⁵	13000~1.4	0~50°C	3~10pH
EI-BrLS	Bromide(Br)	1~5x10 ⁻⁶	81000~0.4	5~50°C	1~12pH
EI-Cd2LS	Cadmium(Cd ²⁺)	10 ⁻¹ ~1x10 ⁻⁶	11200~0.1	5~50°C	3~7pH
EI-Ca2LS	Calcium(Ca ²⁺)	10 ⁻¹ ~5x10 ⁻⁷	4010~0.02	0~50°C	3.5~11pH
EI-ClLS	Chloride(Cl ⁻)	1~3x10 ⁻⁶	35000~1	5~50°C	1~12pH
EI-Cu2LS	Cupric(Cu ²⁺)	10 ⁰ ~1x10 ⁻⁷	64000~0.006	5~50°C	2~7pH
EI-CNLS	Cyanide(CN ⁻)	10 ⁻² ~1x10 ⁻⁶	260~0.03	5~50°C	11~13pH
EI-FLS	Fluoride(F ⁻)	10 ⁻¹ ~1x10 ⁻⁶	1900~0.02	5~50°C	4~8pH
EI-ILS	Iodide(I ⁻)	1~5x10 ⁻⁷	127000~0.06	5~50°C	2~12pH
EI-Pb2LS	Lead(Pb ²⁺)	10 ⁻¹ ~1x10 ⁻⁶	20800~0.02	5~50°C	3~7pH
EI-NO3LS	Nitrate(NO ₃ ⁻)	1~7x10 ⁻⁶	62000~0.4	0~50°C	2~11pH
EI-ClO4LS	Perchlorate(ClO ₄ ⁻)	1~2x10 ⁻⁶	99500~0.2	0~50°C	0~11pH
EI-KLS	Potassium(K ⁺)	1~10 ⁻⁶	39000~0.04	0~50°C	1~9pH
EI-AgLS	Silver(Ag ⁺)	10 ⁰ ~1x10 ⁻⁷	107900~0.01	5~50°C	1~9pH
EI-NaLS	Sodium(Na ⁺)	3~10 ⁻⁷	69000~0.002	0~50°C	1~9pH
EI-S2LS	Sulphide(S ²⁻)	1~1x10 ⁻⁷	3200~0.003	5~50°C	13~14pH
EI-SCNLS	Thiocyanate(SCN ⁻)	10 ⁻¹ ~2x10 ⁻⁶	5800~1	5~50°C	2~12pH
EI-HLS	Water Hardness	2x10 ⁻¹ ~5x10 ⁻⁵	—	0~50°C	4.5~10pH
EI-NH3LS	Ammonia(NH ₃)	1M~10 ⁻⁶ M	0.02	0~50°C	11~13pH

Industrial pH/ORP Electrodes

CS1733

Type: 2 in 1 pH electrode
Material: PPS
Test Range: 0 ~ 14pH
Temperature Range: 0 ~ 80°C
Temperature System: Ag/AgCl
Junction: Double PTFE ring
Electrolyte: 3 mol KCL+AgCl
Diameter: 3/4"NPT
Cable: 5M



CS1753

Type: 3 in 1 pH electrode
Material: PPS
Test Range: 0 ~ 14pH
Temperature Range: 0 ~ 80°C
Temperature System: PT1000
Reference System: Ag/AgCl
Junction: Double PTFE ring
Electrolyte: 3 mol KCL+AgCl
Diameter: 3/4"NPT
Cable: 5M



CS1737

Type: Industrial Antimony electrode pH sensor
Material: PPS
Test Range: 4 ~ 10pH
Temperature Range: 0 ~ 80°C
Temperature System: Ag/AgCl
Junction: Double PTFE ring
Electrolyte: 3 mol KCL+AgCl
Diameter: 3/4"NPT
Cable: 5M



CS2733

Type: ORP electrode
Material: PPS / Platinum
Test Range: $\pm 1000\text{mV}$
Temperature Range: 0 ~ 80°C
Temperature System: Ag/AgCl
Junction: Double PTFE ring
Electrolyte: 3 mol KCL+AgCl
Diameter: 3/4"NPT
Cable: 5M



Industrial Conductivity Electrodes

CS3500

Type: Conductivity electrode
Material: PPS / Graphite
Test Range: 0 ~ 50 mS/cm
Temperature Range: 0 ~ 80°C
Temperature System: PT1000
Cell Constant: K=1.0
Diameter: 3/4"NPT
Cable: 5M



CS3510

Type: Conductivity electrode
Material: PPS
Test Range: 50 ~ 500 mS/cm
Temperature Range: 0 ~ 60°C
Temperature System: PT1000
Cell Constant: K=10
Diameter: 1/2"NPT
Cable: 5M



CS3522

Type: Conductivity electrode
Material: Titanium
Test Range: 0.1 ~ 100 $\mu\text{S/cm}$
Temperature Range: 0 ~ 80°C
Temperature System: PT1000
Cell Constant: K=0.1
Diameter: 1/2"NPT
Cable: 5M



CS3523

Type: Conductivity electrode
Material: Titanium
Test Range: 0.055 ~ 50 $\mu\text{S/cm}$
Temperature Range: 0 ~ 80°C
Temperature System: PT1000
Cell Constant: K=0.01
Diameter: 1/2"NPT
Cable: 5M



Industrial DO Electrodes

CS4021I

Type: Galvanic DO electrode
Material: PPS / Titanium
Test Range: 0 ~ 40 mg/L
Temperature System: NTC22K
Temperature Range: 0 ~ 60°C
Cable: 5M/DIN



CS4551I

Type: Clark DO electrode
Material: PPS / Titanium
Test Range: 0 ~ 40 mg/L
Temperature System: NTC22K
Temperature Range: 0 ~ 60°C
Cable: 5M/DIN



CS4021-3H1L

Type: Replacement Membrane Kit
Membrane Cap: 3 pcs
Electrolyte: 1 bottle(30ml)



CS4551-3H1L

Type: Replacement Membrane Kit
Membrane Cap: 3 pcs
Electrolyte: 1 bottle(30ml)



CS4021-1L/5L

Type: Galvanic DO electrode
Capacity: 30ml / 500ml
For: CS4021I



CS4551-1L/5L

Type: Clark DO electrode
Capacity: 30ml / 500ml
For: CS4551I



CS4021-3H

Type: Galvanic DO Membrane Kit
Quantity: 3 pcs



CS4551-3H

Type: Galvanic DO Membrane Kit
Quantity: 3 pcs



CA-SP5

Type: Sandpaper
Quantity: 5 pcs



CA-GP1

Type: DO electrode protective sleeve
Material: POM
Size: Ø50x150mm
Diameter: 1/2" / 1" NPT



Industrial Free Chlorine Electrodes

CS5520

Type: Three-electrode sensor
Material: Stainless steel / Glass
Test Range: 0.05 ~ 20.00 mg/L
Temperature Range: 0 ~ 50°C
Cable: 3M



A580

Type: By Pass Trough for FCL
Material: Plexiglass
Size: 150x40x220mm



Industrial Ozone Electrodes

CS6520

Type: Three-electrode sensor
Material: Stainless steel / Glass
Test Range: 0.05 ~ 10.00 mg/L
Temperature Range: 0 ~ 50°C
Cable: 3M



A580

Type: By Pass Trough for DOZ
Material: Plexiglass
Size: 150x40x220mm



Industrial DO Electrodes

ELD4900

Type : Industrial Optical Dissolved Oxygen Sensor
 Test Range : 0-200% · 0.00~19.99mg/L
 Temperature Range : -30~130°C
 Pressure Range : ≤0.1Mpa / 0~10m depth
 Operation Temperature : 0~45°C
 Material : SUS316 / Titanium
 Size : Ø55x342mm
 Weight : 1.3kg
 Cable : 10M (Up to 80M optional)
 Ingress Protection : IP68 / NEMA6P



Industrial Conductivity Electrodes

ECS3900

Type : 4-Electrode Conductivity Sensor
 Test Range : 0-200mS/cm
 Temperature Range : 0~60°C
 Temperature System : PT1000
 Cell Constant : K≈0.7
 Pressure Range : 0.7Mpa
 Diameter : 3/4"NPT
 Cable : 28mm
 Material : PC / Titanium



Industrial Free Chlorine Electrodes / Accessories

ECL5900

Type : Self-Cleaning Free Chlorine Electrodes
 FCL Test Range : 0.00~10.00mg/L
 pH Compensation Range : 6.8~8.6
 Temperature Range : 5~60°C
 Pressure Range : 0~10bar
 Flow Speed : 40L/hrs
 Material : Copper / Platinum
 Flow Cell Material : Plexiglass



Accessories

- 1、pH Electrodes(Optional)
- 2、Flow Control Sensor
- 3、Free Chlorine Electrodes



pH Electrodes



Flow Control Sensor



Free Chlorine Electrodes

Industrial Turbidity / SS / MLSS Electrodes

ETJ7901

ETJ7902

ETJ7903

ESJ8901

EMJ9901

Type : Industrial Turbidity / SS / MLSS Electrodes
 Measuring Principle : 90-degree of the optical detection principle.
 Electrodes Material : SUS316L
 Lenses Material : Hard-to-scratch sapphire glass.
 Test Range : 0-100NTU / 0-500NTU / 0-3000NTU / 0-1000ppm / 0-50g/L
 Accuracy : $\pm 3\%$ (Full scale)
 Reproducibility : $\pm 2\%$ (Full scale)
 Operation Temperature : 0~40°C
 Size : $\varnothing 32 \times 163 \text{mm}$
 Weight : 930g
 Cable : 10M
 Ingress Protection : IP68
 Swing Wper Cleaning System(1~9min adjustable, preset 10 min).
 Origin : Japan



ETJ7901、ETJ7902、
ETJ7903、ETJ8901



EMJ9901

Industrial Turbidity Electrodes

ETT7901

Type : Industrial Turbidity Electrodes
 Measuring Principle : Infrared optical detection principle.
 Electrodes Material : SUS316 / Titanium
 Test Range : 5-5000NTU
 Accuracy : $\pm 5\%$ of reading
 Reproducibility : $\pm 2\%$ (Full scale)
 Operation Temperature : 0~45°C
 Size : $\varnothing 60 \times 256 \text{mm}$
 Weight : 1.4kg
 Cable : 10M
 Ingress Protection : IP68
 Swing Wper Cleaning System
 (1min/5min/15 min/30 min/1hr/4hr/12hr/1day/3day/7day adjustable)



Industrial SS / MLSS Electrodes

EST8901

EMT9901

Type : SS / MLSS Electrodes
 Measuring Principle : Infrared optical detection principle.
 Electrodes Material : SUS316 / Titanium
 Test Range : 0-19999mg/L(SS) / 0-120g/L(MLSS)
 Accuracy : $\pm 5\%$ of reading
 Reproducibility : $\pm 2\%$ (Full scale)
 Operation Temperature : 0~45°C
 Size : $\varnothing 60 \times 256 \text{mm}$
 Weight : 1.4kg
 Cable : 10M
 Ingress Protection : IP68
 Swing Wper Cleaning System
 (1min/5min/15 min/30 min/1hr/4hr/12hr/1day/3day/7day adjustable)



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