

LAQUA

LAQUA 2000 Series Benchtop Water Quality Meters



pH	ORP	Ion	Conductivity
Resistivity	Total Dissolved Solids	Dissolved Oxygen	Salinity



www.horiba-laqua.com

LAQUA

LAQUA 2000 Series Benchtop Water Quality Meters

Ready to go out of the box

Meter kits come with electrodes and calibration solutions

Adjustable, Integrated Electrode Stand

Holds up to 2 electrodes and can be positioned on either side of the meter



😊 and 🔔

Indicate reading stability in measurement and calibration modes

5" Digital Backlit Display

Shows all important readings and indicators for every measurement

Electrode Status

Reveals electrode condition based on calibration data





SCAN



Scan the code to view the complete lineup of LAQUA Benchtop Water Quality Meters.



Sleek Design

Clean and elegant body with rounded edges

Smaller Footprint

Perfect for large and even small-scale labs as meter occupies minimal space

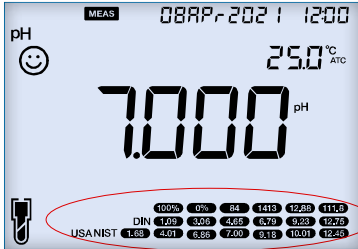
Universal Power Adaptor

Multi-voltage 100~240V with 6 plugs (US, UK, EU, ANZ, Korea, China)



LAQUA

LAQUA 2000 Series Benchtop Water Quality Meters



Auto Cal Standards

Icon lights up after calibration making standard solutions used viewable at a glance



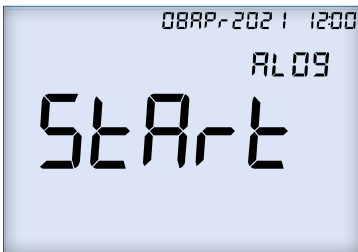
Real Time Clock

Keeps precise time and date and facilitates functions that are time-dependent



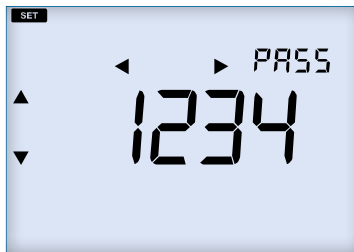
Large Internal Memory

Accepts up to 2000 data sets



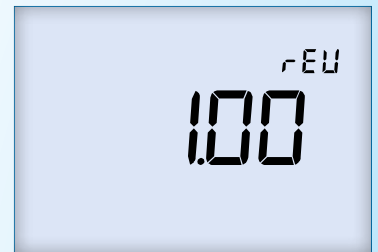
Auto Data Log

Captures and stores data into memory based on specified time interval



Password Protected

A 4-digit password secures the meter setup mode from unauthorized access



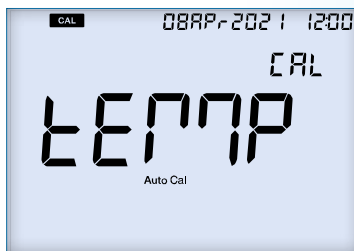
Software Upgrade

Latest software version can be loaded into the meter when available



Adjustable Shut-Off Time

Switches the meter off at idle (up to 30 minutes)



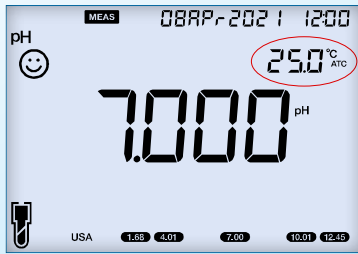
Temperature Calibration

CAL Temp Mode allows temperature calibration

Data Acquisition Software Connectivity

Data can be transferred to computer and exported to CSV/Excel/PDF via USB cable and complimentary DAS20 software





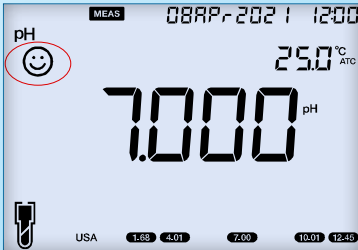
ATC mode



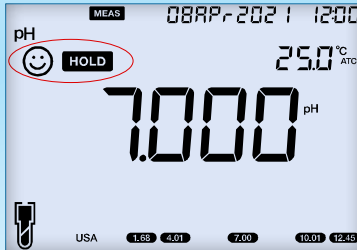
MTC mode

Temperature Compensation

Temperature in °C or °F is either automatically detected when temperature sensor is connected (ATC mode) or manually entered by the user (MTC mode)



Auto Stable



Auto Hold



Real Time

Auto Stable mode signals stable reading, Auto Hold mode locks stable reading, and Real Time mode continuously displays live readings

Audible Feedback

Emits single beep when keys are pressed



Data Printing Capability

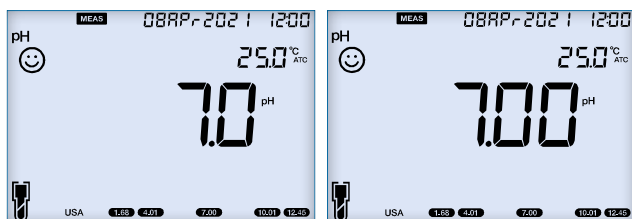
Data with date and time stamp can be printed for GLP/GMP compliance



LAQUA-PH2000

pH/ORP/Temp (°C/°F) Bench Meter

Displays 3 types of selectable pH resolutions



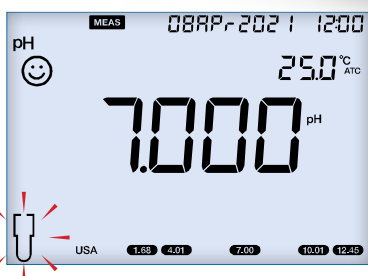
Provides accurate pH readings with auto temperature compensation



Accepts up to 6 calibration points



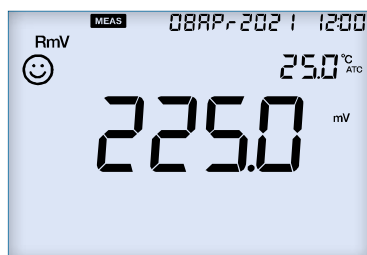
Sets off calibration alarm when activated



Records offset, segment slope(s), and average slope after pH calibration



Allows 1-point ORP calibration



More pH buffer groups for calibration

pH Buffer Group	pH Buffer Values (25°C)
USA	1.68, 4.01, 7.00, 10.01, 12.45
NIST	1.68, 4.01, 6.86, 9.18, 12.45
NIST2	1.68, 4.01, 6.86, 10.01, 12.45
DIN	1.09, 3.06, 4.65, 6.79, 9.23, 12.75
CUST	Use up to 6 pH buffers that are 1.0 pH apart for manual calibration

LAQUA pH Electrodes

LAQUA-PH2000	
Model	pH/ORP/Temp (°C/°F) Bench Meter
pH Range	-2.000 to 20.000 pH
Resolution	0.1 / 0.01 / 0.001 pH
Accuracy	± 0.003 pH
pH Buffer Groups	USA, NIST, NIST2, DIN, Custom
Calibration Points	Up to 5 (USA, NIST, NIST2) / Up to 6 (DIN, Custom)
ORP Range	± 2000.0 mV
Resolution	0.1 mV
Accuracy	± 0.2 mV
Calibration Option	Yes (Up to ± 200 mV)
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F
Resolution	0.1 °C / °F
Accuracy	± 0.5 °C / ± 0.9 °F
Calibration Option	Yes (± 10.0 °C / ± 18.0 °F range in 0.1 °C increments)
Memory	2000
Auto Data Log	Yes
Real-time Clock	Yes
Date & Time Stamp	Yes
Measurement Modes	Auto Stable / Auto Hold / Real Time
Offset & Slope Display	Yes (Segment & Average Slopes)
Calibration Alarm	Yes (Programmable: up to 90 days)
Auto Shut-Off	Yes (Programmable: up to 30 mins.)
Electrode Status	On screen display
Diagnostics	Yes
Password Setting	Yes
Software Upgrade	Yes
PC / Printer Communication	Phono jack (USB / RS232C)
Meter Inputs	BNC, phono (ATC), DC sockets
Display	5" Custom LCD with backlight and 320 segments
Power Requirement	AC adaptor 100 - 240V, 50 - 60Hz
Dimensions & Weight	155(L) x 150(W) x 67(H) mm, 765g

Meter Kits	
PH2000* 3200912571	- Meter with integrated electrode stand - Universal power adaptor with 6 plugs - Manual
PH2000-S* 3200905158	- PH2000 9615S-10D refillable, glass-body pH electrode with built-in temperature sensor 502-S USA pH buffers kit
PH2000-SN* 3200905163	- PH2000 9615S-10D refillable, glass-body pH electrode with built-in temperature sensor 501-S NIST pH buffers kit

* Model PH2000IN-S has memory to store only single calibration data.



ToupH Standard Electrode

9615S-10D

General laboratory application

pH Range: 0-14

Operating Temperature Range (°C): 0-100

Liquid Junction: Ceramic



ToupH Sleeve Electrode

9681S-10D

High viscosity application

pH Range: 0-14

Operating Temperature Range (°C): 0-60

Liquid Junction: Movable Sleeve



ToupH Micro Electrode

9618S-10D

Precious trace amount sample

pH Range: 0-14

Operating Temperature Range (°C): 0-60

Liquid Junction: Ceramic

For more electrode options



LAQUA-EC2000

Conductivity/Resistivity/TDS/Salinity/Temp (°C/°F) Bench Meter

Allows auto and manual conductivity calibrations



Calculates resistivity, TDS, and salinity based on measured conductivity

Provides accurate conductivity readings with auto temperature compensation



Accepts up to 5 conductivity calibration points



Allows 1-point salinity calibration



Records individual and average calibration factors after conductivity calibration



Meter Kits

EC2000
3200912572

- Meter with integrated electrode stand
- Universal power adaptor with 6 plugs
- Manual

EC2000-S
3200905159

- EC2000
- 9382-10D Ti/Pt black plastic-body conductivity electrode k=1.0 with built-in temperature sensor
- 503-S Conductivity standard solutions kit

LAQUA-EC2000	
Model	Conductivity/Resistivity/TDS/Salinity/Temp (°C/°F) Bench Meter
Conductivity Range	0.000 to 1.999 $\mu\text{S/cm}$ ($k = 0.1$) 2.00 to 19.99 $\mu\text{S/cm}$ ($k = 0.1, 1$) 20.0 to 199.9 $\mu\text{S/cm}$ ($k = 0.1, 1, 10$) 200 to 1999 $\mu\text{S/cm}$ ($k = 0.1, 1, 10$) 2.00 to 19.99 mS/cm ($k = 0.1, 1, 10$) 20.0 to 199.9 mS/cm ($k = 1, 10$) 0.200 to 2.000 S/cm ($k = 10$)
Units	Auto ranging S/cm, S/m ($\mu\text{S} \leftrightarrow \text{mS}$)
Resolution	0.05% full scale
Accuracy	$\pm 0.6\%$ full scale; $\pm 1.5\%$ full scale $> 18.0 \text{ mS/cm}$
Reference Temperature	15.0 to 30.0 °C (adjustable)
Temperature Coefficient	0.00 to 10.00 % per °C (adjustable)
Cell Constants	0.0700 to 13.000 (adjustable)
Calibration Points	Up to 4 (Auto) / Up to 5 (Manual)
Resistivity Range	0.000 $\Omega\cdot\text{cm}$ to 20.0 $\text{M}\Omega\cdot\text{cm}$
Resolution	0.5% full scale
Accuracy	$\pm 0.6\%$ full scale; $\pm 1.5\%$ full scale $> 1.80 \text{ M}\Omega\cdot\text{cm}$
Total Dissolved Solids (TDS) Range	0.01 to 9.99 mg/L (ppm) 10.0 to 99.9 mg/L (ppm) 100 to 999 mg/L (ppm) 1.00 to 9.99 g/L (ppt) 10.0 to 100 g/L (ppt)
Resolution	0.01, 0.1, 1 mg/L $\leftrightarrow$ g/L (ppm $\leftrightarrow$ ppt)
Accuracy	$\pm 0.1\%$ full scale
TDS Curves	EN27888, 442, NaCl, Linear (0.40 to 1.00)
Salinity Range	0.0 to 100.0 ppt / 0.00 to 10.00 %
Resolution	0.1 ppt / 0.01%
Accuracy	$\pm 0.2\%$ full scale
Salinity Curves	NaCl / Seawater
Calibration Option	Yes
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F
Resolution	0.1 °C / °F
Accuracy	± 0.5 °C / ± 0.9 °F
Calibration Option	Yes (± 10.0 °C / ± 18.0 °F range in 0.1 °C increments)
Memory	2000
Auto Data Log	Yes
Real-time Clock	Yes
Date & Time Stamp	Yes
Measurement Modes	Auto Stable / Auto Hold / Real Time
Auto Shut-Off	Yes (Programmable: up to 30 mins.)
Electrode Status	On screen display
Diagnostics	Yes
Password Setting	Yes
Software Upgrade	Yes
PC / Printer Communication	Phono jack (USB / RS232C)
Meter Inputs	BNC, phono, DC sockets
Display	5" Custom LCD with backlight and 320 segments
Power Requirement	AC adaptor 100 - 240V, 50 - 60Hz
Dimensions & Weight	155(L) x 150(W) x 67(H) mm, 765g

Pre-programmed with TDS and salinity curves for various applications

TDS Curves	Applications
EN27888	Environmental
442 (Na_2SO_4 , NaHCO_3 , NaCl)	Boiler water, HVAC
NaCl	Aquaculture, pickling
Linear (KCl)	General

LAQUA Conductivity Electrodes



Stainless Steel Conductivity Cell

9371-10D

Low conductivity application

Cell Constant: 0.1 cm^{-1} ; 10 m^{-1}

Measurement Range: $0.01 \mu\text{S/cm}$ - $500 \mu\text{S/cm}$; $1 \mu\text{S/m}$ - 50 mS/m

Temp. Range (°C): 0 - 100



Titanium Conductivity Cell

9382-10D

General purpose application

Cell Constant: 1 cm^{-1} ; 100 m^{-1}

Measurement Range: $1 \mu\text{S/cm}$ - 100 mS/cm ; 0.1 mS/m - 10 S/m

Temp. Range (°C): 0 - 80



Platinum Conductivity Cell

3553-10D

High conductivity application

Cell Constant: 10 cm^{-1} ; 1000 m^{-1}

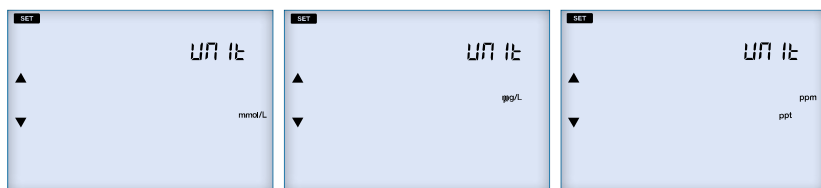
Measurement Range: $10 \mu\text{S/cm}$ - 1 S/cm ; 1 mS/m - 100 S/m

Temp. Range (°C): 0 - 60

LAQUA-ION2000

pH/ORP/Ion/Temp (°C/°F) Bench Meter

Provides direct measurements of ion concentrations in various units



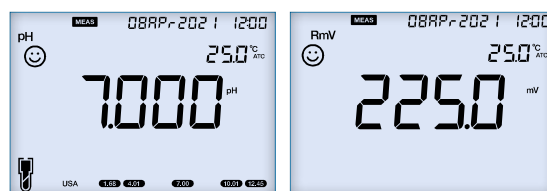
Accepts up to 5 user-defined ion calibration points



Records segment slope(s) and average slope after ion calibration.

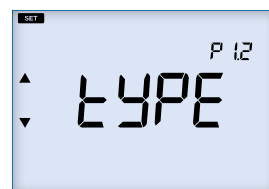


Provides accurate pH and ORP readings with auto temperature compensation



LAQUA-ION2000	
pH/ORP/Ion/Temp (°C/°F) Bench Meter	
pH Range	-2.000 to 20.000 pH
Resolution	0.1 / 0.01 / 0.001 pH
Accuracy	± 0.003 pH
pH Buffer Groups	USA, NIST, NIST2, DIN, Custom
Calibration Points	Up to 5 (USA, NIST, NIST2) / Up to 6 (DIN, Custom)
ORP Range	± 2000.0 mV
Resolution	0.1 mV
Accuracy	± 0.2 mV
Calibration Option	Yes (Up to ± 200 mV)
Ion Range	0.000 µg/L to 9999 g/L
Units	µg/L ↔ mg/L ↔ g/L, ppm ↔ ppt, mmol/L ↔ mol/L
Resolution	4 Significant digits
Accuracy	± 0.3% full scale or ± 0.2 mV, whichever is higher
Calibration Points	Up to 5
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F
Resolution	0.1 °C / °F
Accuracy	± 0.5 °C / ± 0.9 °F
Calibration Option	Yes (± 10.0 °C / ± 18.0 °F range in 0.1 °C increments)
Memory	2000
Auto Data Log	Yes
Real-time Clock	Yes
Date & Time Stamp	Yes
Measurement Modes	Auto Stable / Auto Hold / Real Time
Offset & Slope Display	Yes (Segment & Average Slopes)
Calibration Alarm	Yes (Programmable: up to 90 days)
Auto Shut-Off	Yes (programmable: up to 30 mins.)
Electrode Status	On screen display
Diagnostics	Yes
Password Setting	Yes
Software Upgrade	Yes
PC / Printer Communication	Phono jack (USB / RS232C)
Meter Inputs	BNC, phono (ATC), DC sockets
Display	5" Custom LCD with backlight and 320 segments
Power Requirement	AC adaptor 100 - 240V, 50 - 60Hz
Dimensions & Weight	155(L) x 150(W) x 67(H) mm, 765g

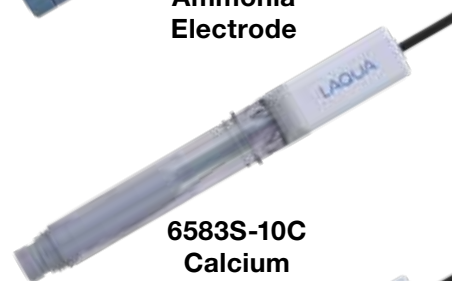
Meter Kits	
ION2000 3200912573	- Meter with integrated electrode stand - Universal power adaptor with 6 plugs - Manual
NH3 2000-S 4000052303	- ION2000 5002S-10C Ammonia electrode
CA 2000-S 4000052304	- ION2000 6583S-10C Calcium electrode
CL 2000-S 4000052305	- ION2000 6560S-10C Chloride electrode
F 2000-S 4000052306	- ION2000 6561S-10C Fluoride electrode
NO3 2000-S 4000052307	- ION2000 6581S-10C Nitrate electrode
K 2000-S 4000052308	- ION2000 6582S-10C Potassium electrode



Provides a selection of ion electrode types and allows ion valence setting



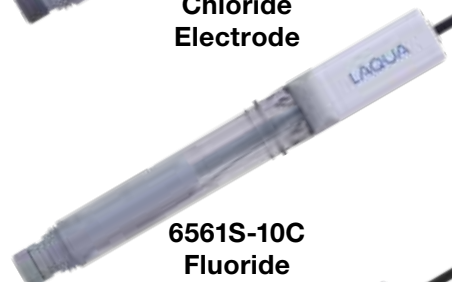
**5002S-10C
Ammonia
Electrode**



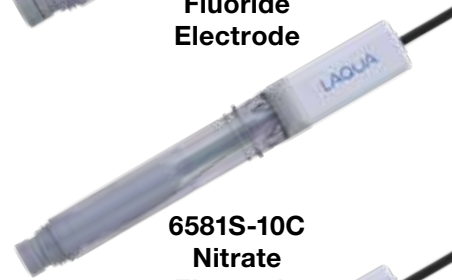
**6583S-10C
Calcium
Electrode**



**6560S-10C
Chloride
Electrode**



**6561S-10C
Fluoride
Electrode**



**6581S-10C
Nitrate
Electrode**

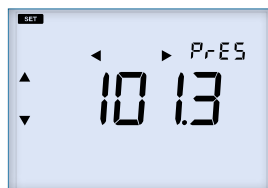


**6582S-10C
Potassium
Electrode**

LAQUA-DO2000

DO/BOD/Temp (°C/°F)

Measures dissolved oxygen (DO) and biochemical oxygen demand (BOD)



Compensates the effects of salinity, barometric pressure, and temperature in DO reading



Allows auto and manual DO calibrations with galvanic DO electrodes



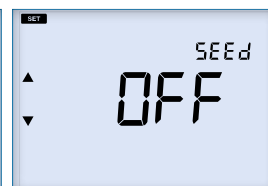
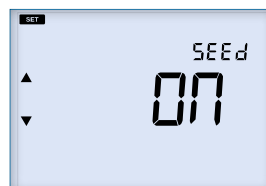
Records span coefficient after DO calibration



Calculates 5-day BOD with seed correction option



Accepts up to 2 DO calibration points



LAQUA-DO2000	
DO/BOD/Temp (°C/°F)	
DO Range	0.0 to 60.00 mg/L, 0.0 to 600.0%
Resolution	0.01 mg/L, 0.1%
Accuracy	+/- 0.1 mg/L , +/- 1.0%
Salinity Compensation	0.0 to 40.0 ppt
Barometric Pressure Compensation	10.0 to 200.0 kPa
BOD Measurement	5-day BOD with seed correction option
DO Probe Type	Galvanic integrated with temperature sensor
Calibration Points	Up to 2
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F
Resolution	0.1 °C / °F
Accuracy	± 0.5 °C / ± 0.9 °F
Calibration Option	Yes (± 10.0 °C / ± 18.0 °F range in 0.1 °C increments)
Memory	2000
Auto Data Log	Yes
Real-time Clock	Yes
Date & Time Stamp	Yes
Measurement Modes	Auto Stable / Auto Hold / Real Time
Auto Shut-Off	Yes (Programmable: up to 30 mins.)
Electrode Status	On screen display
Diagnostics	Yes
Password Setting	Yes
Software Upgrade	Yes
PC / Printer Communication	Phono jack (USB / RS232C)
Meter Inputs	BNC, phono (ATC), DC sockets
Display	5" Custom LCD with 320 segments and backlight
Power Requirement	AC adaptor 100 - 240V, 50 - 60Hz
Dimensions & Weight	155(L) x 150(W) x 67(H) mm, 765g

Meter Kits	
DO2000* 3200946350	• Meter with integrated electrode stand • Universal power adaptor with 6 plugs • Manual
DO2000-S* 3200946351	• DO2000 • 9521-10D DO electrode with built-in temperature sensor, replaceable DO tip, detachable adapter and stirrer*

*Model DO2000IN-S has only memory to store single calibration data

LAQUA Dissolved Oxygen Electrode



Galvanic DO Electrode

9521-10D

DO / BOD applications

Measurement Range: 0 - 20

mg/L, 0 - 200% DO

Temp. Range (°C): 0 - 50



SCAN



7544

DO Electrode tip for 9521-10D



SCAN



Stirrer Set

For 9521-10D



SCAN



LAQUA-PC2000

pH/ORP/Ion/Conductivity/Resistivity/TDS/Salinity/Temp (°C/°F)

Combination of ION2000
and EC2000



Multi-parameter meter
with dual channel input

Meter Kits	
PC2000 3200912574	• Meter with integrated electrode stand • Universal power adaptor with 6 plugs • Manual
PC2000-S 3200905161	• PC2000 • 9615S-10D refillable, glass-body pH electrode with built-in temperature sensor • 9382-10D Ti/Pt black plastic-body conductivity cell k=1.0 with built-in temperature sensor • 502-S USA pH buffers kit • 503-S Conductivity standard solutions kit
PC2000-SN 3200905166	• PC2000 • 9615S-10D refillable, glass-body pH electrode with built-in temperature sensor • 9382-10D Ti/Pt black plastic-body conductivity cell k=1.0 with built-in temperature sensor • 501-S NIST pH buffers kit • 503-S Conductivity standard solutions kit

Model		LAQUA-PC2000		
		pH/ORP/Ion/Conductivity/Resistivity/TDS/Salinity/Temp (°C/°F)		
pH Range	-2.000 to 20.000 pH			
Resolution	0.1 / 0.01 / 0.001 pH			
Accuracy	± 0.003 pH			
pH Buffer Groups	USA, NIST, NIST2, DIN, Custom			
Calibration Points	Up to 5 (USA, NIST, NIST2) / Up to 6 (DIN, Custom)			
ORP Range	± 2000.0 mV			
Resolution	0.1 mV			
Accuracy	± 0.2 mV			
Calibration Option	Yes (Up to ± 200 mV)			
Ion Range	0.000 µg/L to 9999 g/L			
Units	µg/L ↔ mg/L ↔ g/L, ppm ↔ ppt, mmol/L ↔ mol/L			
Resolution	4 Significant digits			
Accuracy	± 0.3% full scale or ± 0.2 mV, whichever is higher			
Calibration Points	Up to 5			
Conductivity Range	0.000 to 1.999 µS/cm (k = 0.1) 2.00 to 19.99 µS/cm (k = 0.1, 1) 20.0 to 199.9 µS/cm (k = 0.1, 1, 10)	200 to 1999 µS/cm (k = 0.1, 1, 10) 2.00 to 19.99 mS/cm (k = 0.1, 1, 10)	20.0 to 199.9 mS/cm (k = 1, 10) 0.200 to 2.000 S/cm (k = 10)	
Units	Auto ranging S/cm, S/m (µS ↔ mS)			
Resolution	0.05% full scale			
Accuracy	± 0.6% full scale; ± 1.5% full scale > 18.0 mS/cm			
Reference Temperature	15.0 to 30.0 °C (adjustable)			
Temperature Coefficient	0.00 to 10.00 % per °C (adjustable)			
Cell Constants	0.0700 to 13.000 (adjustable)			
Calibration Points	Up to 4 (Auto) / Up to 5 (Manual)			
Resistivity Range	0.000 Ω•cm to 20.0 MΩ•cm			
Resolution	0.5% full scale			
Accuracy	± 0.6% full scale; ± 1.5% full scale > 1.80 MΩ•cm			
Total Dissolved Solids (TDS) Range	0.01 to 9.99 mg/L (ppm) 10.0 to 99.9 mg/L (ppm)	100 to 999 mg/L (ppm) 1.00 to 9.99 g/L (ppt)	10.0 to 100 g/L (ppt)	
Resolution	0.01, 0.1, 1 mg/L ↔ g/L (ppm ↔ ppt)			
Accuracy	± 0.1% full scale			
TDS Curves	EN27888, 442, NaCl, Linear (0.40 to 1.00)			
Salinity Range	0.0 to 100.0 ppt / 0.00 to 10.00 %			
Resolution	0.1 ppt / 0.01%			
Accuracy	± 0.2% full scale			
Salinity Curves	NaCl / Seawater			
Calibration Option	Yes			
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F			
Resolution	0.1 °C / °F			
Accuracy	± 0.5 °C / ± 0.9 °F			
Calibration Option	Yes (± 10.0 °C / ± 18.0 °F range in 0.1 °C increments)			
Memory	2000			
Auto Data Log	Yes			
Real-time Clock	Yes			
Date & Time Stamp	Yes			
Measurement Modes	Auto Stable / Auto Hold / Real Time			
Offset & Slope Display	Yes (Segment & Average Slopes)			
Calibration Alarm	Yes (Programmable: up to 90 days)			
Auto Shut-Off	Yes (Programmable: up to 30 mins.)			
Electrode Status	On screen display			
Diagnostics	Yes			
Password Setting	Yes			
Software Upgrade	Yes			
PC / Printer Communication	Phono jack (USB / RS232C)			
Meter Inputs	2 x BNC, 2 x phono (ATC), DC sockets			
Display	5" Custom LCD with backlight and 320 segments			
Power Requirement	AC adaptor 100 - 240V, 50 - 60Hz			
Dimensions & Weight	155(L) x 150(W) x 67(H) mm, 770g			

LAQUA-PD2000

pH/ORP/Ion/DO/BOD/Temp (°C/°F)

Combination of ION2000
and DO2000



Multi-parameter meter
with dual channel input

Meter Kits	
PD2000 3200946352	• Meter with integrated electrode stand • Universal power adaptor with 6 plugs • Manual
PD2000-S 3200946353	• PD2000 • 9521-10D DO electrode with built-in temperature sensor, replaceable DO tip, detachable adapter and stirrer* • 9615S-10D refillable, glass-body pH electrode with built-in temperature sensor • 502-S USA pH buffers kit
PD2000-SN 3200946354	• PD2000 • 9521-10D DO electrode with built-in temperature sensor, replaceable DO tip, detachable adapter and stirrer* • 9615S-10D refillable, glass-body pH electrode with built-in temperature sensor • 501-S NIST pH buffers kit

*Magnetic stir plate is required

Model	LAQUA-PD2000	
	pH/ORP/Ion/DO/BOD/Temp (°C/°F)	
pH Range	-2.000 to 20.000 pH	
Resolution	0.1 / 0.01 / 0.001 pH	
Accuracy	± 0.003 pH	
pH Buffer Groups	USA, NIST, NIST2, DIN, Custom	
Calibration Points	Up to 5 (USA, NIST, NIST2) / Up to 6 (DIN, Custom)	
ORP Range	± 2000.0 mV	
Resolution	0.1 mV	
Accuracy	± 0.2 mV	
Calibration Option	Yes (Up to ± 200 mV)	
Ion Range	0.000 µg/L to 9999 g/L	
Units	µg/L ↔ mg/L ↔ g/L, ppm ↔ ppt, mmol/L ↔ mol/L	
Resolution	4 Significant digits	
Accuracy	± 0.3% full scale or ± 0.2 mV, whichever is higher	
Calibration Points	Up to 5	
DO Range	0.0 to 60.00 mg/L, 0.0 to 600.0%	
Resolution	0.01 mg/L, 0.1%	
Accuracy	+/- 0.1 mg/L , +/- 1.0%	
Salinity Compensation	0.0 to 40.0 ppt	
Barometric Pressure Compensation	10.0 to 200.0 kPa	
BOD Measurement	5-day BOD with seed correction option	
DO Probe Type	Galvanic integrated with temperature sensor	
Calibration Points	Up to 2	
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F	
Resolution	0.1 °C / °F	
Accuracy	± 0.5 °C / ± 0.9 °F	
Calibration Option	Yes (± 10.0 °C / ± 18.0 °F range in 0.1 °C increments)	
Memory	2000	
Auto Data Log	Yes	
Real-time Clock	Yes	
Date & Time Stamp	Yes	
Measurement Modes	Auto Stable / Auto Hold / Real Time	
Offset & Slope Display	Yes (Segment & Average Slopes)	
Calibration Alarm	Yes (Programmable: up to 90 days)	
Auto Shut-Off	Yes (Programmable: up to 30 mins.)	
Electrode Status	On screen display	
Diagnostics	Yes	
Password Setting	Yes	
Software Upgrade	Yes	
PC / Printer Communication	Phono jack (USB / RS232C)	
Meter Inputs	2 x BNC, 2 x phono (ATC), DC sockets	
Display	5" Custom LCD with 320 segments and backlight	
Power Requirement	AC adaptor 100 - 240V, 50 - 60Hz	
Dimensions & Weight	155(L) x 150(W) x 67(H) mm, 770g	

Solutions & Accessories

pH Buffers

Part No.	Model	Description
3999960015	501-S	NIST pH Buffers Kit (pH 4.01, 6.86, 9.18 buffers & 3.33M KCl, 250ml each)
3999960016	502-S	USA pH Buffers Kit (pH 4.01, 7.00, 10.01 buffers & 3.33M KCl, 250ml each)
3999960028	500-2	pH 1.68 Buffer at 25°C, 500ml
3999960029	500-4	pH 4.01 Buffer at 25°C, 500ml
3999960030	500-686	pH 6.86 Buffer at 25°C, 500ml
3999960031	500-7	pH 7.00 Buffer at 25°C, 500ml
3999960032	500-9	pH 9.18 Buffer at 25°C, 500ml
3999960033	500-10	pH 10.01 Buffer at 25°C, 500ml
3999960034	500-12	pH 12.46 Buffer at 25°C, 500ml



502-S USA pH Buffers Kit



503-S Conductivity Standard Solutions Kit

Conductivity Standards

Part No.	Model	Description
3999960017	503-S	Conductivity Standard Solutions Kit (84μS/cm, 1413μS/cm, 12.88mS/cm & 111.8mS/cm, 250ml each)
3999960035	500-21	84μS/cm Conductivity Standard Solution at 25°C, 500ml
3999960036	500-22	1413μS/cm Conductivity Standard Solution at 25°C, 500ml
3999960037	500-23	12.88mS/cm Conductivity Standard Solution at 25°C, 500ml
3999960038	500-24	111.8mS/cm Conductivity Standard Solution at 25°C, 500ml



ORP Standard Solution

ORP Powders

ORP Standard Solution & Powders

Part No.	Model	Description
4000047848	500-225	ORP Standard Solution 225 mV at 25°C, 500ml
3200043618	160-51	ORP Powder 89 mV at 25°C (for 250ml), 10 sachets/pack  
3200043617	160-22	ORP Powder 258 mV at 25°C (for 250ml), 10 sachets/pack  

Ion Standard Solutions

Part No.	Model	Description
3200697171	500-NH4-SH	1000 mg/L Ammonium Ion Standard Solution, 500ml
3200697172	500-NH4-SL	100 mg/L Ammonium Ion Standard Solution, 500ml
3200697175	500-CA-SH	1000 mg/L Calcium Ion Standard Solution, 500ml
3200697176	500-CA-SL	100 mg/L Calcium Ion Standard Solution, 500ml
3200697167	500-CL-SH	1000 mg/L Chloride Ion Standard Solution, 500ml
3200697168	500-CL-SL	100 mg/L Chloride Ion Standard Solution, 500ml
3200697163	500-F-SH	1000 mg/L Fluoride Ion Standard Solution, 500ml
3200697164	500-F-SL	100 mg/L Fluoride Ion Standard Solution, 500ml
3200697179	500-NO3-SH	1000 mg/L Nitrate Ion Standard Solution, 500ml
3200697180	500-NO3-SL	100 mg/L Nitrate Ion Standard Solution, 500ml
3200697183	500-K-SH	1000 mg/L Potassium Ion Standard Solution, 500ml
3200697184	500-K-SL	100 mg/L Potassium Ion Standard Solution, 500ml



Calcium Ion Electrode Solutions



Chloride Ion Electrode Solutions



Fluoride Ion Electrode Solutions



Potassium Ion Electrode Solutions



Ammonia Ion Electrode Solutions



Nitrate Ion Electrode Solutions

Ionic Strength Adjustors

Part No.	Model	Description
3200697174	500-NH3-ISA	Ammonia Ionic Strength Adjustor, 500ml 
3200697178	500-CA-ISA	Calcium Ionic Strength Adjustor, 500ml
3200697170	500-CL-ISA	Chloride Ionic Strength Adjustor, 500ml
3200697166	500-F-TISAB	Fluoride Ionic Strength Adjustor, 500ml
3200697182	500-NO3-ISA	Nitrate Ionic Strength Adjustor, 500ml
3200697186	500-K-ISA	Potassium Ionic Strength Adjustor, 500ml



220

250

Electrode Filling Solutions

Part No.	Model	Description
3999960023	525-3	3.33M KCl pH / ORP Electrode Filling Solution, 250ml
3200043640	300	3.33M KCl pH / ORP Electrode Filling Solution, 250ml
3200697173	500-NH3-IFS	Ammonia Electrode Filling Solution, 500ml
3200697177	500-CA-IFS	Calcium Electrode Filling Solution, 500ml
3200697169	500-CL-IFS	Chloride Electrode Filling Solution, 500ml
3200697165	500-F-IFS	Fluoride Electrode Filling Solution, 500ml
3200697181	500-NO3-IFS	Nitrate Electrode Filling Solution, 500ml
3200697185	500-K-IFS	Potassium Electrode Filling Solution, 500ml



230

Cleaning Solutions

pH Electrode Cleaning Solutions

Part No.	Model	Description
3014028653	220	Electrode Cleaning Solution (for general contaminants), 50ml x 2 
3200530494	230	Electrode Cleaning Solution (for rejuvenating electrode) includes Solution A (30ml) & Solution B (100ml)
3200366771	250	Electrode Cleaning Solution (for protein contaminants), 400ml



Integrated Electrode Stand for LAQUA 2000 Series Bench Meters

Accessories

Part No.	Description
3200861022	Integrated Electrode Stand for LAQUA 2000 Series Bench Meters
3014028368	X-51 pH/mV/Ion/DO/Temperature Digital Simulator
3014028370	X-52 Conductivity/Temperature Digital Simulator
3200869791	Universal power adaptor
3014030146	120V Printer with paper (printer cable is sold separately)
3014030147	230V Printer with paper (printer cable is sold separately)
3200779639	PC Cable (1.5m phono to USB cable for connecting meter to PC)
3200779638	Printer Cable (1.5m phono to 25-pin D-sub cable for connecting meter to printer)
3014030149	Printer Paper, 20 rolls
3014030150	Printer Ink Ribbon, 5pcs/pack



X-51 Digital Simulator

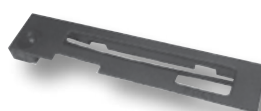
X-52 Digital Simulator



25-pin D-Sub Printer (RS232) cable (Meter to Printer)



PC (USB) cable (Meter to Computer)



Printer ink ribbon

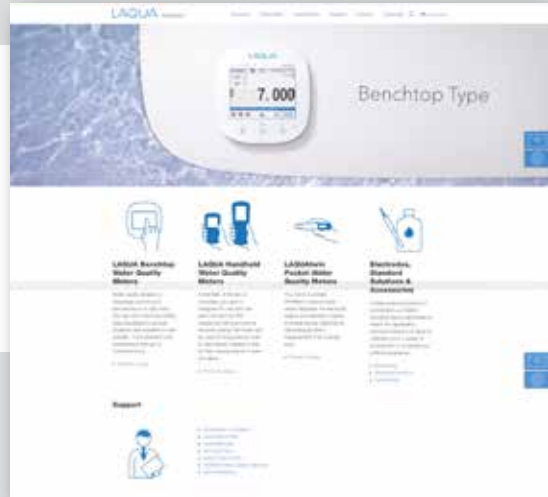


Printer paper



Printer

With over 60 years of engineering excellence, HORIBA's diverse range of water quality analyzers and electrodes are ideal for everyday laboratory needs through to the most demanding of applications. Visit our website for a wealth of useful information and water quality measurement tips to help you obtain the best results in your work.



Benchtop Meters

Developed using extensive feedback from users, our new LAQUA meters deliver the best solution for water quality analysis. Our LAQUA website features an online 'Selection Guide' to enable you to find the perfect LAQUA meter and electrode for your need.



Handheld Meters

In the lab, in the field or anywhere you need it. LAQUA Handheld meters are designed for use with one hand and with an IP67 waterproof rating and shock-resistant casing. Meters can be used for long periods, even in dark places, making it ideal for field measurements in rivers and lakes.



Electrodes

Various electrodes to match any application. A wide range of products for both benchtop and portable systems are available, including easy and reliable standard models, application-focused models for small samples or large containers, and special electrodes for specific sample characteristics.



Pocket Meters

Analyzing water quality is simplified when using our LAQUAtwin range of meters. Designed to produce accurate and reliable results. Anyone, anywhere, at any time can measure samples easily with a LAQUAtwin meter. See just how good they are at our website.



Application Notes

LAQUAtwin pocket meters offer quick and convenient alternative to analyze important parameters with high accuracy. Several application notes are available at (<http://goo.gl/znwE6j>) detailing the use of LAQUAtwin and the results achieved for the respective applications. Additional application notes will be added when available.



Visit the **HORIBA LAQUA Singapore** Channel on YouTube and subscribe to see more of our videos.



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