

# LAQUA

LAQUA WQ-300 Series Smart Handheld Water Quality Meters



pH | ORP | Dissolved Oxygen | Conductivity | Resistivity | Total Dissolved Solids | Salinity | Ion



[www.horiba-laqua.com](http://www.horiba-laqua.com)



# LAQUA WQ-300 Series

## Smart Handheld Water Quality Meters



Meter and electrode shown in actual size



### Large Colour Graphic LCD Screen with Backlight

All models have colour graphic digital LCD screen (70 x 52 mm) with white LED backlight for easy viewing.



### Built-in Foldable Meter Stand

Collapsible meter stand is built-in at the back of the meter for convenient usage and storage.



### IP67 Waterproof and Dustproof

Fully protected from dust and capable of withstanding water immersion up to 1 meter depth for 30 mins.



### Battery and USB Powered

Four AA batteries or battery pack with micro USB cable can be used to power the meter in the field. USB charger plugged to a power outlet can be used for an uninterrupted operation in the lab.



### Eco-friendly, Shock-proof, Scratch Resistant, and Non-slip

Apart from their high impact strength, the polycarbonate and TPE materials are also long-lasting and recyclable. The TPE provides non-slip grip and is not easily damaged by abrasion.

Scan code to view LAQUA WQ-300 Series feature video online



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



### Built-in Sensor Holders

Three grooves on the meter housing serve as sensor holders.

# LAQUA WQ-300 Series

## Smart Handheld Water Quality Meters



### Efficient Sensor Locking Mechanism

The push-pull connectors deliver a simple yet fast and strong method to connect and disconnect sensors. The lock is released only when the outer sleeve of the connector is pulled back so accidental disconnection is prevented.

### No Sensor Adapter Needed

Each sensor head has two grooves and one hook which can be used to attach up to three sensor heads.



### Sensor's LED Light as Reading Stability Indicator

Blue LED light on the sensor head flashes until the reading is stable.



### Compatible with Conventional Electrodes having BNC and Phono Connectors and Long Cables

With 300-BNC sensor head adapter, conventional electrodes with BNC and phono connectors can be connected to the meter. Also, electrodes with up to 10m cable can be used without noise problem.

### Hands-free Testing

Hang the meter using a wrist strap or lanyard, place it into the carrying case, or mount it to a wall while in use.

### Ergonomic Design

The black meter housing is made of polycarbonate material covered with a layer of thermoplastic elastomer (TPE) material. It is lightweight, comfortable to touch, and suitable for field applications.



### Rugged Carrying Case

Keeps all your equipment organized and secure.

### Storage Space

Compartment for instruction manual and accessories.

### DO Sensor Guard



### Bottle Stand

Secures the bottles upright while doing calibration.



### Bottle Holders

Stores up to 8 x 60ml bottles of Standard Solutions

### Cable Space

For sensors with extra long cables

### Cable Winder

Organize sensor cables neatly.

### Sensor Holders

Holds pH, Conductivity, and DO sensors

English  
日本語  
Français  
Deutsch  
Español  
Português  
中文



### Multi-Language Options

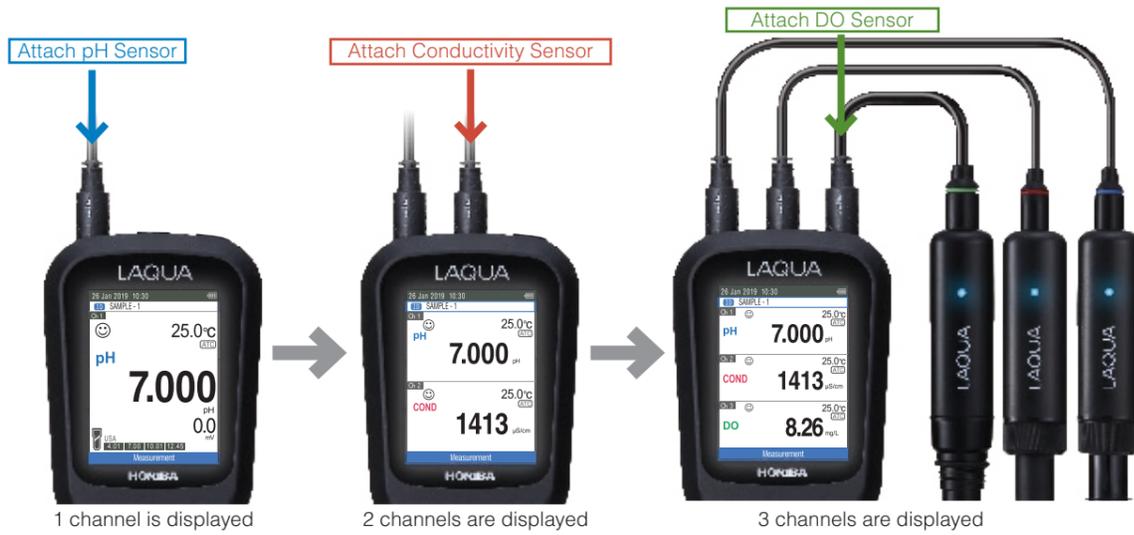
Available in several languages—English, Japanese, French, German, Spanish, Portuguese, and Chinese.

### Simultaneous Calibrations and Measurements

Applicable for dual- and triple-channel models.

### Versatile Channels & Adaptive Display

Single-, dual-, and triple-channel models are available. Sensors can be connected to any channel in dual- and triple-channel models and the meter screen automatically adjusts.



### Automatic Sensor Recognition

Sensor info, calibration data, and measurement setup stored in sensor head are viewable in the meter when sensor is connected.

P	Date Time	Cal Value	mV	°C	%
1	29 Aug 2019 14:55	4.00	168.8	23.4	96.9
2	29 Aug 2019 14:53	7.00	-2.1	23.6	98.7
3	29 Aug 2019 14:56	10.03	-177.6	23.3	
4					
5					

Sensor	Model : 300pH - 2
	SN : ABCD1234
	SW Ver.: 0.3.6
Cartridge	Model : 300-P-C
	SN : 123456



### Data Transfer via USB or Wireless Communication

Meter stores up to 10,000 data with date/time stamp. Transfer data from meter to computer seamlessly via USB cable or wirelessly via Wi-Fi. Each meter comes with a wireless SD card.

Scan code to view LAQUA WQ-300 Series USB Data Transfer video

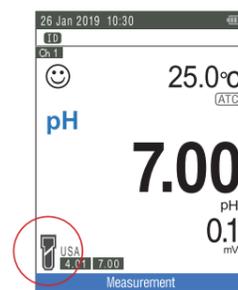
Scan code to view LAQUA WQ-300 Series Wireless Data Transfer video

### Printer Communication

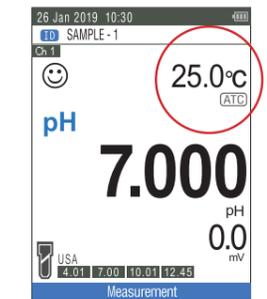
Print data using a printer via 25-pin D-sub printer cable.

### Sensor Status Indicator

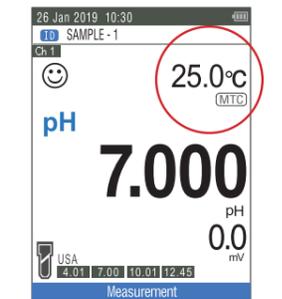
Sensor icon presents the sensor condition after calibration.



### Temperature Sensor Indicator

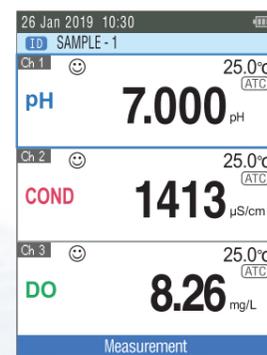


Temperature sensor is connected to meter



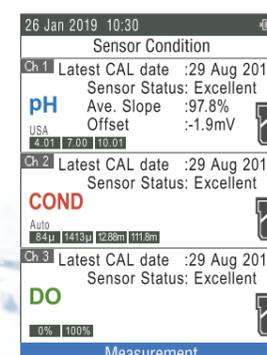
Temperature sensor is not connected to meter

### Sample ID



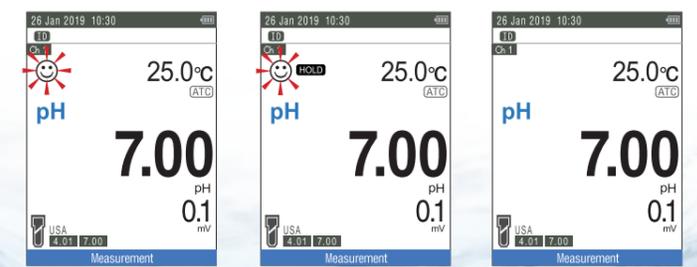
Use up to eight characters for creating Sample ID.

### Calibration Data



Right arrow button shows the latest calibration data.

### Measurement Modes



Auto Stable

Auto Hold

Real Time

**Customizable Meter Kit**

Create a custom meter kit by selecting the meter, sensor, and accessories.



Up to 55 possible meter + sensor combinations

5 Combinations

**WQ-310**  
Single Channel



15 Combinations

**WQ-320**  
Dual Channel



35 Combinations

**WQ-330**  
Triple Channel



**Meter only**

**WQ-310-K**  
Single Channel  
3200832605



**WQ-320-K**  
Dual Channel  
3200832606



**WQ-330-K**  
Triple Channel  
3200832607



**Sensor (2.0m cable) kit**

**WQ 300 PH 2M**

**pH** Parts for a pH Sensor with 2 meter cable



**WQ 300 EC 2M**

**COND** Parts for a Conductivity Sensor with 2 meter cable



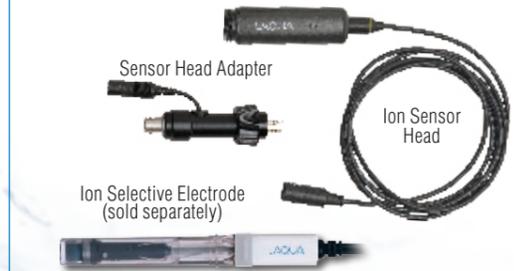
**WQ 300 DO 2M**

**DO** DO Sensor - 3200780940



**WQ 300 ION 2M**

**Ion** Ion Sensor Kit - 4000043097



**WQ 300 ORP 2M**

**ORP** ORP Sensor Kit - 4000043096



**Sensor (5.0m cable) kit**

**WQ 300 PH 5M**

**pH** Parts for a pH Sensor with 5 meter cable



**WQ 300 EC 5M**

**COND** Parts for a Conductivity Sensor with 5 meter cable



**WQ 300 DO 5M**

**DO** DO Sensor - 3200780942



\*Includes carrying case, 4 x AA batteries, wireless SD card, user manual, and quick guide



**Sensor head with built-in digital circuit**

Retains sensor and measurement information

**Sensor cartridge**

Replaceable, cost efficient and environment-friendly

# Smart Digital Sensor

## ■ Maintenance-free, gel-filled pH sensor

No electrolyte refilling required

- KCl gel electrolyte
- Double junction reference
- Porous sintered polyethylene junction
- Built-in temperature sensor
- Rugged polycarbonate body
- Replaceable pH sensor cartridge
- pH sensor heads with 2m and 5m cables are available

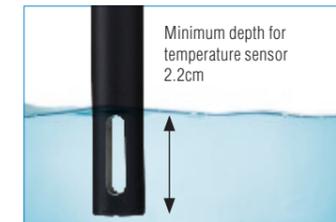


pH

## ■ 4-Cell conductivity sensor

Wide range of conductivity measurements possible

- From clean water to industrial wastewater, the 4-cell type can measure a variety of samples with different conductivity
- Built-in temperature sensor
- Durable epoxy / carbon body
- Replaceable conductivity sensor cartridge
- Conductivity sensor heads with 2m and 5m cables are available

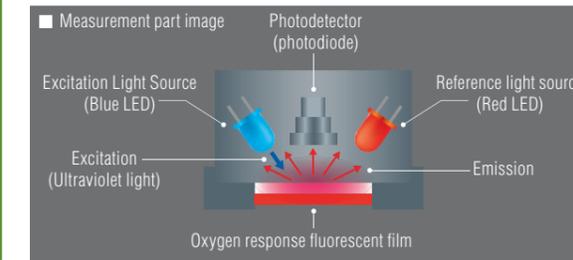


COND

## ■ Optical dissolved oxygen (DO) sensor

Longer usable life with excellent performance

- Easy to handle – not affected with sample flow velocity, not sensitive to hydrogen sulfide, DO sensor cap replacement after 1-2 years\*
- Built-in temperature sensor
- Comes with replaceable DO sensor cap, air calibration bottle and Stainless Steel DO Sensor Protective Guard
- DO sensor heads with 2m and 5m cables are available



DO

## ■ Ion sensor head

Compatible with conventional ion selective electrodes

- Accepts all combination ion selective electrodes with BNC connector
- Requires sensor head adapter
- Comes with 2m cable



Ion

## ■ ORP sensor head

Compatible with conventional ORP electrodes

- Accepts 9300-10D and other combination ORP electrodes with BNC connector
- Requires sensor head adapter
- Comes with 2m cable



ORP

\*Depending on application, handling, and maintenance

## Sensor and Meter Specifications

pH Sensor Head pH / mV / Temp (°C/°F)		
Model	300PH-2	300PH-5
Part No.	3200812206	3200812207
pH Range	-2.00 to 20.00 pH -2.000 to 20.000 pH	
Resolution	-2.00 to 20.00: 0.01 pH -2.000 to 20.000: 0.001 pH	
Accuracy	-2.00 to 20.00: ±0.01 -2.000 to 20.000: ±0.005	
Calibration Points	Up to 6	
pH Buffer Groups	USA, DIN, NIST, NIST10, Custom	
mV Range	±1000.0 mV	
Resolution	0.1 mV	
Accuracy	±0.1 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	
Body Material	ABS / Polycarbonate	
Length and Diameter	85 x 30 mm	
Connector	Push-pull	
Cable Length	2 m	5 m

pH Sensor Cartridge pH/mV/Temp (°C/°F)	
Model	300-P-C
Part No.	3200786363
pH Range	-2.00 to 20.00 pH -2.000 to 20.000 pH
Temperature Range	0 to 80 °C -32.0 to 176.0 °F
Junction Material	Porous sintered polyethylene
Double Junction	Yes
Temperature Sensor	Built-in
Length and Diameter	110 x 16 mm
Body Material	Polycarbonate, glass bulb

Dissolved Oxygen Sensor DO (mg/L, %) / O <sub>2</sub> / Temp (°C/°F)		
Model	300-D-2	300-D-5
Part No.	3200780940	3200780942
Dissolved Oxygen (DO) Range	0.00 to 20.00 mg/L 0.0 to 200.0 %	
Resolution	0.01 mg/L, 0.1%	
Accuracy	±0.2 mg/L, ±2 %	
Salinity Compensation	Auto: by conductivity sensor / Manual: 0.0 to 40.0 ppt	
Barometric Pressure Compensation	Auto: by built-in barometer / Manual: 10.0 to 199.9 kPa	
Calibration Points	Up to 2	
Oxygen Range	0.0 to 50.0%	
Resolution	0.1%	
Accuracy	±0.5%	
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	
Body Material	ABS / Polycarbonate	
Length and Diameter	200 x 16 mm	
Connector	Push-pull	
Cable Length	2 m	5 m
Sensor cap included	1	

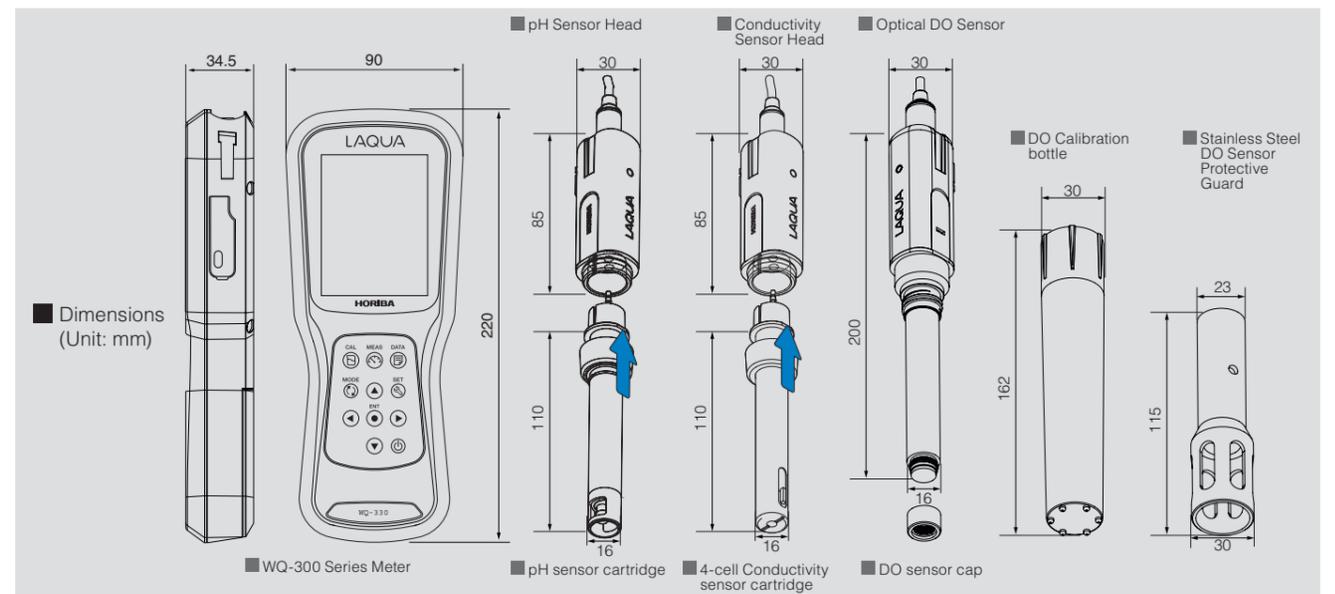
Dissolved Oxygen Sensor Cap	
Model	300-D-M
Part No.	3200781554
DO Range	0.00 to 20.00 mg/L 0.0 to 200.0 %
Temperature Range	0 to 50.0 °C 32.0 to 122.0 °F
Length and Diameter	10 x 16 mm
Body Material	PVC, PMMA

Conductivity Sensor Head EC / Sal / TDS / Res / Temp (°C/°F)		
Model	300-C-2	300-C-5
Part No.	3200784468	3200812202
Conductivity Range	μS/cm	μS/m
	0.000 to 0.199	0.0 to 19.9
	0.200 to 1.999	20.0 to 199.9
	2.00 to 19.99	200 to 1999
	20.0 to 199.9	200 to 1999
	200 to 1999	2.00 to 19.99
	mS/cm	20.0 to 199.9
	2.00 to 19.99	200 to 1999
	S/m	20.0 to 199.9
	20.0 to 199.9	2.00 to 19.99
200 to 2000	20.0 to 200.0	
Resolution	Auto ranging, up to 4 significant digits	
Accuracy	± 0.5% full scale of each range > 200 mS/cm (20.0 S/m): ± 1.5% full scale	
Reference Temperature	15 to 30 °C	
Temperature Coefficient	0.00 to 10.00 %/°C	
Calibration Points	Up to 4 (Auto) / Up to 5 (Manual)	
Units	S/cm, S/m	
Salinity Range	0.00 to 80.00 ppt 0.000 to 8.000 %	
Resolution	0.01 ppt, 0.001 %	
Accuracy	± 0.5% of reading or ± 0.01 ppt, whichever is greater	
Salinity Curves	NaCl, Seawater (UNESCO 1978)	
Calibration Option	Yes	
Total Dissolved Solids (TDS) Range	0.01 mg/L to 200,000 mg/L	
Resolution	0.01 minimum, 4 significant digits	
Accuracy	± 0.5% of reading or ± 0.1 mg/L, whichever is greater	
TDS Curves	Linear (0.40 to 1.00), EN27888, 442, NaCl	
Resistivity Range	Ω•cm	Ω•m
	0.1 to 199.9	0.001 to 1.999
	200 to 1999	2.00 to 19.99
	kΩ•cm	20.0 to 199.9
	2.00 to 19.99	200 to 1999
	20.0 to 199.9	2.00 to 19.99
	MΩ•cm	20.0 to 199.9
	2.00 to 19.99	200 to 2000
	20.0 to 200.0	
	Resolution	Auto ranging, up to 4 significant digits
Accuracy	± 0.5% full scale of each range > 200 mS/cm (20.0 S/m): ± 1.5% full scale	
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	
Body Material	ABS / Polycarbonate	
Length and Diameter	85 x 30 mm	
Connector	Push-pull	
Cable Length	2 m	5 m

4-Cell Conductivity Sensor Cartridge	
Model	300-4C-C
Part No.	3200780928
Cell Constant	0.172 cm <sup>-1</sup>
Conductivity Range	10 μS/cm to 2000 mS/cm
Temperature Range	0 to 100 °C 32.0 to 212.0 °F
Temperature Sensor	Built-in
Length and Diameter	110 x 16 mm
Body Material	Epoxy, carbon

Ion Sensor Head Ion / mV / Temp (°C/°F)	
Model	300-I-2
Part No.	3200812203
Ion Range	(mg/L, mmol/L) 0.000 to 0.999, 1.00 to 9.99, 10.0 to 99.9, 100 to 999, 1000 to 9990, 10000 to 99900
Resolution	0.001 minimum, 3 significant digits
Accuracy	±0.1 mV
Calibration Points	Up to 5
mV Range	±1000.0 mV
Resolution	0.1 mV
Accuracy	±0.1 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
Body Material	ABS / Polycarbonate
Length and Diameter	85 x 30 mm
Connector	Push-pull
Cable Length	2 m

ORP Sensor Head ORP / Temp (°C/°F)	
Model	300-O-2
Part No.	3200812204
ORP Range	-2000 to +2000 mV
Resolution	< ±1000.0 mV: 0.1 mV ≥ 1000.0 mV: 1 mV
Accuracy	< ±1000.0 mV: ±0.1 mV ≥ 1000.0 mV: ±1 mV
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
Body Material	ABS / Polycarbonate
Length and Diameter	85 x 30 mm
Connector	Push-pull
Cable Length	2 m



Model	WQ-310-K	WQ-320-K	WQ-330-K
Part No.	3200832605	3200832606	3200832607
Channel	Single	Dual	Triple
Memory	10,000 Data with date and time stamp		
Data Log	Auto / Manual		
Measurement Modes	Auto Stable / Auto Hold / Real Time		
Calibration Alarm	Programmable: 0 to 400 days		
Auto Power Off	Programmable: 0 to 60 minutes		
Real-time Clock	Available		
Sensor Status	On display		
Diagnostics	Error codes		
Language	English, Japanese, French, German, Spanish, Portuguese, Chinese		
PC Communication	Via micro USB cable or wireless		
Printer Communication	Via 25-pin D-sub printer (RS232) cable		
Meter Input	Push-pull connector		
Display	Color graphic TFT-LCD, 3.5 inches		
Housing	IP67, shock & scratch resistant, non-slip (ABS / polycarbonate)		
Power Requirement	4 x AA batteries / battery pack or USB charger with micro USB cable		
Battery Life	> 100 hours (with display brightness 3 and no sensor connected)		
Dimensions	220 (L) x 90 (W) x 34 (H) mm		
Weight	Approx. 400g (batteries included), 320 g (batteries excluded)		
Standard Accessories	Carrying case, 4 x AA batteries, wireless SD card, manual, and quick guide		

# Accessories & Solutions

## pH Buffer Solutions

Part No.	Model	Description
1300045600	250-PH-4	pH 4.01 Buffer Solution 250ml - NIST Traceable Accuracy ± 0.01 @ 25°C
1300045602	500-PH-4	pH 4.01 Buffer Solution 500ml - NIST Traceable Accuracy ± 0.01 @ 25°C
1300045599	1000-PH-4	pH 4.01 Buffer Solution 1ltr - NIST Traceable Accuracy ± 0.01 @ 25°C
1300045607	250-PH-7	pH 7.00 Buffer Solution 250ml - NIST Traceable Accuracy ± 0.01 @ 25°C
1300045608	500-PH-7	pH 7.00 Buffer Solution 500ml - NIST Traceable Accuracy ± 0.01 @ 25°C
1300045606	1000-PH-7	pH 7.00 Buffer Solution 1ltr - NIST Traceable Accuracy ± 0.01 @ 25°C
1300045604	250-PH-10	pH 10.01 Buffer Solution 250ml - NIST Traceable Accuracy ± 0.01 @ 25°C
1300045605	500-PH-10	pH 10.01 Buffer Solution 500ml - NIST Traceable Accuracy ± 0.01 @ 25°C
1300045603	1000-PH-10	pH 10.01 Buffer Solution 1ltr - NIST Traceable Accuracy ± 0.01 @ 25°C



NIST traceable pH Buffer Solutions

## ORP Standard Solutions

Part No.	Model	Description
1300045637	250-ORP-200	200mV Redox/ORP Solution 250ml - Accuracy ± 5mV @ 25°C
1300045636	250-ORP-475	475mV Redox/ORP Solution 250ml - Accuracy ± 5mV @ 25°C
1300045635	500-ORP-475	475mV Redox/ORP Solution 500ml - Accuracy ± 5mV @ 25°C
1300045634	500-ORP-650	650mV Redox/ORP Solution 500ml - Accuracy ± 5mV @ 25°C

## Internal Filling Solutions

Part No.	Model	Description
3200043640	300	Internal Solution for Reference Electrode Type 300 - pH - 250ml
3200043622	310	Internal Filling Solution for H-7 and old type Electrodes
3200043623	350	Powder for preparing Reference Electrode Internal Solution - 500g

## Conductivity Standard Solutions

Part No.	Model	Description
1300045609	250-EC-84	84µS/cm Calibration Solution 250ml - Accuracy ± 1%, KCl
1300045632	500-EC-84	84µS/cm Calibration Solution 500ml - Accuracy ± 1%, KCl
1300045633	1000-EC-84	84µS/cm Calibration Solution 1ltr - Accuracy ± 1%, KCl
1300051602	250-EC-147	147µS/cm Calibration Solution 250ml - Accuracy ± 1%, KCl
1300045595	250-EC-1413	1413 µS/cm Calibration Solution 250ml - Accuracy ± 1%, (25°C)=0.01M KCl
1300045638	500-EC-1413	1413 µS/cm Calibration Solution 500ml - Accuracy ± 1%, (25°C)=0.01M KCl
1300045591	1000-EC-1413	1413 µS/cm Calibration Solution 1ltr - Accuracy ± 1%, (25°C)=0.01M KCl
1300045590	250-EC-1288	12.88 mS/cm Calibration Solution 250ml - Accuracy ± 1%, (25°C)=0.1M KCl
1300045639	500-EC-1288	12.88 mS/cm Calibration Solution 500ml - Accuracy ± 1%, (25°C)=0.1M KCl
1300045588	1000-EC-1288	12.88 mS/cm Calibration Solution 1ltr - Accuracy ± 1%, (25°C)=0.1M KCl
1300045630	250-EC-1118	111.8 mS/cm Calibration Solution 250ml - Accuracy ± 1%, (25°C)=1M KCl
1300045660	500-EC-1118	111.8 mS/cm Calibration Solution 500ml - Accuracy ± 1%, (25°C)=1M KCl
1300045631	1000-EC-1118	111.8 mS/cm Calibration Solution 1ltr - Accuracy ± 1%, (25°C)=1M KCl

## 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

## 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



Calcium Ion Electrode Solutions



Chloride Ion Electrode Solutions



Fluoride Ion Electrode Solutions



Potassium Ion Electrode Solutions



Ammonia Ion Electrode Solutions



Nitrate Ion Electrode Solutions

## Cleaning Solutions

Part No.	Model	Description
3014028653	220	Cleaning solution for removing inorganic sample residues, 50ml x 2pcs
3200530494	230	Cleaning solution for removing inorganic and organic sample residues, Solution A (30ml) & Solution B (100ml)
3200366771	250	Cleaning solution for removing proteins, 400ml



220

250

## Cartridges, Ion Selective Electrodes, and Tips

Part No.	Model	Description
3200786363	300-P-C	pH sensor cartridge
3200780928	300-4C-C	4-cell conductivity sensor cartridge
3200781554	300-D-M	Optical DO sensor cap
3014046710	9300-10D	ORP electrode with flat platinum tip and temperature sensor
3200698386	5002S-10C	Ammonia electrode (combination)
3200697410	6583S-10C	Calcium ion selective electrode (combination)
3200697407	6560S-10C	Chloride ion selective electrode (combination)
3200693774	6561S-10C	Fluoride ion electrode (combination)
3200697408	6581S-10C	Nitrate ion selective electrode (combination)
3200697409	6582S-10C	Potassium ion selective electrode (combination)
3200705774	-	Ammonia electrode membrane caps (3 pcs.)
3200697414	7683S	Calcium electrode tip
3200697411	7660S	Chloride electrode tip
3200693606	7661S	Fluoride electrode tip
3200697412	7681S	Nitrate electrode tip
3200697413	7682S	Potassium electrode tip



230

Cleaning Solutions



Ammonia electrode membrane caps



Calcium electrode tip



Chloride electrode tip



Fluoride electrode tip



Nitrate electrode tip



Potassium electrode tip

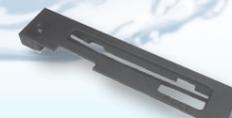


300-BNC Sensor Head Adapter

## Accessories

Part No.	Model	Description
3200821465	300-BNC	Sensor head adapter
3014028368	X-51	Digital simulator (300-BNC is required for pH, ORP, and Ion sensor heads)
3014030146	—	Printer for GLP / GMP compliance, 120V US version (printer cable is sold separately)
3014030147	—	Printer for GLP / GMP compliance, 230V EU version (printer cable is sold separately)
3200779638	—	25-pin D-sub printer (RS232) cable, 1.5m
3014030149	—	Printer paper, 20 rolls
3014030150	—	Printer ink ribbon, 5pcs/pack
3200828646	—	pH sensor protective tube, 3pcs/pack (for 200 series, 300 series)

\*Sensors carry 6-month warranty against manufacturing defects.



Printer ink ribbon



Printer paper



25-pin D-sub printer cable



Printer



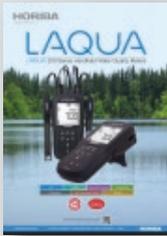
X-51 Digital Simulator

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.



**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.



**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.



**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.



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