

HORIBA

LAQUA

LAQUA WQ-300 Series Smart Handheld Water Quality Meters



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



www.horiba-laqua.com

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JAPAN

Explore the future

HORIBA

LAQUA WQ-300 Series

Smart Handheld Water Quality Meters



Meter and electrode shown in actual size



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

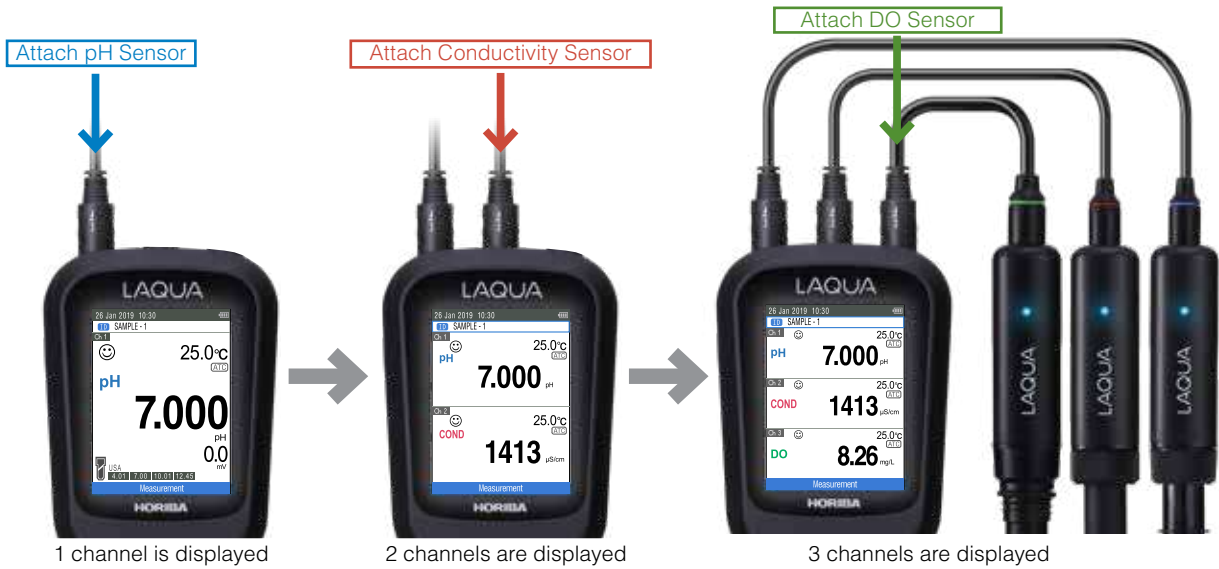


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Versatile Channels & Adaptive Display

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.

26 Jan 2019 10:30					
SAMPLE - 1					
Ch 1					
☺ 25.0°C (ATC)					
pH					
7.000					
pH 0.0 mV					
Measurement					

26 Jan 2019 10:30	
pH Setup	
pH Resolution	0.01 ▶
Buffer Group	USA ▶
CAL Alarm	OFF ▶
Temp. Type	ATC ▶
CAL Data Clear	▶
Set	

26 Jan 2019 10:30					
Ch1 Calibration Data					
Ch 1 Latest CAL Date :29 Aug 2019					
Sensor Status : Excellent					
pH Ave. Slope : 97.8%					
Offset : -1.9mV					
USA 4.01 7.00 10.01					
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	
3	29 Aug 2019 14:56	10.03	-177.6	23.3	98.7
4					
5					
Measurement					

26 Jan 2019 10:30	
Ch1 Sensor Info.	
Sensor	
Model	: 300pH - 2
SN	: ABCD1234
SW Ver.:	0.3.6
Cartridge	
Model	: 300-P-C
SN	: 123456
Set	



LAQUA WQ-300 Series

Smart Handheld Water Quality Meters

English
日本語
Français
Deutsch
Español
Português
中文



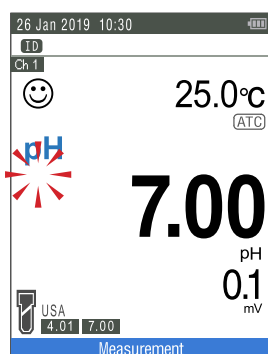
Multi-Language Options

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

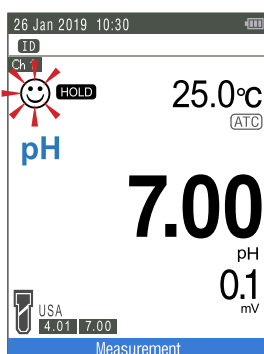
Simultaneous Calibrations and Measurements

Applicable for dual- and triple-channel models.

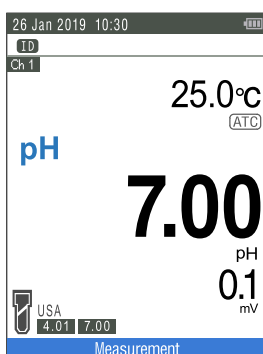
Measurement Modes



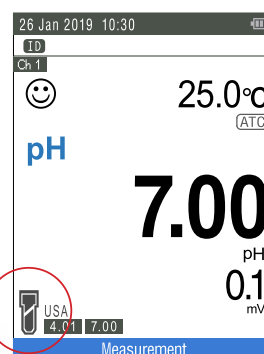
Auto Stable



Auto Hold



Real Time



Sensor Status Indicator

Sensor icon presents the sensor condition after calibration.



Excellent Very Good Good

Sensor's LED Light as Reading Stability Indicator

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



Calibration Data

26 Jan 2019 10:30	
Sensor Condition	
Ch 1	Latest CAL date :29 Aug 2019
Sensor Status: Excellent	
Ave. Slope :97.8%	
Offset :-1.9mV	
USA 4.01 7.00 10.01	
Ch 2	Latest CAL date :29 Aug 2019
Sensor Status: Excellent	
Auto 84.1 1413 12.88 111.8m	
Ch 3	Latest CAL date :29 Aug 2019
Sensor Status: Excellent	
0% 100%	
Measurement	

Right arrow button shows the latest calibration data.

Sample ID

26 Jan 2019 10:30	
ID	SAMPLE - 1
Ch 1	25.0°C (ATC)
pH	7.000
Ch 2	25.0°C (ATC)
COND	1413 µS/cm
Ch 3	25.0°C (ATC)
DO	8.26 mg/L
Measurement	

Use up to eight characters for creating Sample ID.

Temperature Sensor Indicator

26 Jan 2019 10:30	
ID	SAMPLE - 1
Ch 1	25.0°C (ATC)
pH	7.000
0.0	mV
USA 4.01 7.00 10.01 12.45	
Measurement	

Temperature sensor is connected to meter

26 Jan 2019 10:30	
ID	SAMPLE - 1
Ch 1	25.0°C (MTC)
pH	7.000
0.0	mV
USA 4.01 7.00 10.01 12.45	
Measurement	

Temperature sensor is not connected to meter



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.



Printer Communication

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



LAQUA WQ-300 Series | Smart Handheld Water Quality Meters

10 m extension cable



Built-in Sensor Holders

Three grooves on the meter housing serve as sensor holders.



No Sensor Adapter Needed

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



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.



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 15m cable can be used without noise problem. 300-EXT-10, a 10 m extension cable, is available.



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.

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.





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.



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.



IP67 Waterproof and Dustproof

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



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.

LAQUA WQ-300 Series | Smart Handheld Water Quality Meters

Rugged Carrying Case

Keeps all your equipment organized and secure.



Customizable Meter Kit

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

DO COND pH
Multi-parameter combinations



pH pH pH
Single parameter combinations



Up to 55 possible meter + sensor combinations

5 Combinations

WQ-310
Single Channel

pH
COND
DO
Ion
ORP



15 Combinations

WQ-320
Dual Channel

pH pH
COND COND
DO DO
Ion Ion
ORP ORP
COND DO
COND Ion
COND ORP



pH COND
pH DO
pH Ion
pH ORP
DO Ion
DO ORP
Ion ORP

35 Combinations

WQ-330
Triple Channel

DO pH Ion
Ion COND ORP
ORP DO pH
pH Ion COND
COND ORP DO

DO COND pH
Ion DO COND
ORP Ion DO
pH ORP Ion
COND pH ORP

pH pH pH
COND COND COND
DO DO DO
Ion Ion Ion
ORP ORP ORP

pH pH Ion
COND COND ORP
DO DO pH
Ion Ion COND
ORP ORP DO

pH pH DO
COND COND Ion
DO DO ORP
Ion Ion pH
ORP ORP COND

pH pH COND
COND COND DO
DO DO Ion
Ion Ion ORP
ORP ORP pH

pH pH ORP
COND COND pH
DO DO COND
Ion Ion DO
ORP ORP Ion



Choose your meter*:

Choose your sensor kit:

Meter only



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

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 Kit 2M

pH

pH Sensor Kit with USA pH Buffers - 4000043090
pH Sensor Kit with NIST pH Buffers - 4000043092



WQ 300 4-Cell EC Kit 2M

COND

4-Cell Conductivity Sensor Kit with
Conductivity Standards - 4000043094



WQ 300 2-Cell EC Kit 2M

COND

2-Cell Conductivity Sensor Kit with
Conductivity Standards - 4000046656



WQ 300 2-Cell EC Flow Cell Kit 2M

COND

2-Cell Conductivity Sensor Kit with Flow-Cell and
Conductivity Standards - 4000046674



WQ 300 DO Kit 2M

DO

DO Sensor - 3200780940



Sensor (5.0m cable) kit

WQ 300 PH Kit 5M

pH

pH Sensor Kit with USA pH Buffers - 4000043091
pH Sensor Kit with NIST pH Buffers - 4000043093



WQ 300 4-Cell EC Kit 5M

COND

4-Cell Conductivity Sensor Kit with
Conductivity Standards - 4000043095



WQ 300 2-Cell EC Kit 5M

COND

2-Cell Conductivity Sensor Kit with
Conductivity Standards - 4000046657



WQ 300 2-Cell EC Flow Cell Kit 5M

COND

2-Cell Conductivity Sensor Kit with Flow-Cell and
Conductivity Standards - 4000046675



WQ 300 DO Kit 5M

DO

DO Sensor - 3200780942



*10m extension cable available to achieve a maximum cable length of 15m

Choose your sensor kit:

Sensor (2.0m cable) kit

WQ 300 ORP Kit 2M



WQ 300 Nitrate ION Kit 2M



WQ 300 Potassium ION Kit 2M



WQ 300 Calcium ION Kit 2M



WQ 300 Sodium ION Kit 2M



WQ 300 Ammonium ION Kit 2M



Sensor (5.0m cable) kit

WQ 300 ORP Kit 5M



WQ 300 Nitrate ION Kit 5M



WQ 300 Potassium ION Kit 5M



WQ 300 Calcium ION Kit 5M



WQ 300 Sodium ION Kit 5M



WQ 300 Ammonium ION Kit 5M





Smart Digital Sensor



HORIBA's Smart digital sensor technology

All sensor heads are offered in 2-m and 5-m cable versions. A 10-m extension cable is also available.

■ 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



■ 2-Cell & 4-Cell conductivity sensors

Wide range of conductivity measurements possible

- 2-Cell conductivity sensor with flow cell is designed for ultra-pure water applications
- From clean water to industrial wastewater, the 4-cell type can measure a variety of samples with different conductivities
- Built-in temperature sensor
- Stainless steel 2-cell cartridge
- Durable epoxy / carbon body 4-cell cartridge
- Replaceable conductivity sensor cartridge



Detachable glass flow cell

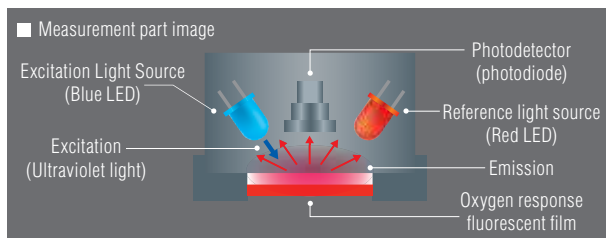
COND



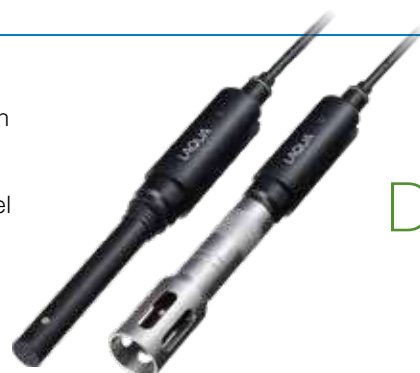
■ Optical dissolved oxygen (DO) sensor

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



■ Maintenance-free, gel-filled ORP sensor

No electrolyte refilling required

- Platinum tip attached to glass
- KCl gel electrolyte
- Porous sintered polyethylene junction
- Built-in temperature sensor
- Rugged polycarbonate body
- Replaceable ORP sensor cartridge

ORP



■ Ion sensor

Compatible not only with ion cartridges, but also with combination ion-selective electrodes

- Accepts all maintenance-free ion sensor cartridges equipped with temperature sensor
- Requires 300-BNC sensor head adapter for connecting combination ion-selective electrodes

Ion



*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	
Model	300-P-C
Part No.	3200786363
pH Range	-2.00 to 20.00 pH -2.000 to 20.000 pH
Operating 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, %) / O₂ / 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 CapModel **300-D-M**

Part No.	3200781554
DO Range	0.00 to 20.00 mg/L 0.0 to 200.0 %
Operating Temperature Range	0 to 50.0 °C 32.0 to 122.0 °F
Length and Diameter	10 x 16 mm
Body Material	PVC, PMMA

ORP Sensor Head ORP / Temp (°C/°F)Model **300-O-2** **300-O-5**

Part No.	3200812204	3200923561
ORP Range	-2000 to +2000 mV	
Resolution	< ±1000.0 mV: 0.1mV ≥ 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	5 m

ORP Sensor CartridgeModel **300-O-C**

Part No.	3200922104
ORP Range	-2000 to +2000 mV
Operating 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, platinum/glass

Ion Sensor Cartridges

Ion Sensor Cartridge	Nitrate (NO_3^-)	Potassium (K^+)	Calcium (Ca^{2+})	Sodium (Na^+)	Ammonium (NH_4^+)
Model	300-NO3-C	300-K-C	300-CA-C	300-NA-C	300-NH4-C
Part No.	3200986784	3200986785	3200986786	3200986787	3200986783
Measurement Range	0.62 to 62,000 mg/L NO_3^- (1×10^{-5} to 1 mol/L NO_3^-)	0.39 to 39,000 mg/L K^+ (1×10^{-5} to 1 mol/L K^+)	0.4 to 40,000 mg/L Ca^{2+} (1×10^{-5} to 1 mol/L Ca^{2+})	0.23 to 23,000 mg/L Na^+ (1×10^{-5} to 1 mol/L Na^+)	0.18 to 18,000 mg/L NH_4^+ (1×10^{-5} to 1 mol/L NH_4^+)
Operating Temperature Range	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C
pH Range	pH 4 to 7 (100 mg/L NO_3^- , 25 °C)	pH 5 to 11 (100 mg/L K^+ , 25 °C)	pH 5 to 10 (100 mg/L Ca^{2+} , 25 °C)	pH 5 to 10 (100 mg/L Na^+ , 25 °C)	pH 5 to 8 (100 mg/L NH_4^+ , 25 °C)
Junction Material	Porous sintered polyethylene	Porous sintered polyethylene	Porous sintered polyethylene	Porous sintered polyethylene	Porous sintered polyethylene
Double Junction	Yes	Yes	Yes	Yes	Yes
Temperature Sensor	Built-in	Built-in	Built-in	Built-in	Built-in
Length and Diameter	110 x 16 mm	110 x 16 mm	110 x 16 mm	110 x 16 mm	110 x 16 mm
Body Materials	Polycarbonate, PVC	Polycarbonate, PVC	Polycarbonate, PVC	Polycarbonate, PVC	Polycarbonate, PVC

Each ion sensor cartridge comes with 100 mg/L & 1000 mg/L ion standard solutions (50ml each), ionic strength adjustor (50ml), syringe, and manual.

Ion Sensor Head Ion / mV / Temp (°C/°F)

Model	300-I-2	300-I-5
Part No.	3200812203	3200923560
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	±0.3% full scale	
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	5 m

Conductivity Sensor Head EC / Sal / TDS / Res / Temp (°C/°F)

Model

300-C-2

300-C-5

Part No.	3200784468			3200812202		
Conductivity Range	$\mu\text{S/cm}$ 0.000 to 0.199 0.200 to 1.999 2.00 to 19.99 20.0 to 199.9 200 to 1999	mS/cm 2.00 to 19.99 20.0 to 199.9 200 to 2000		$\mu\text{S/m}$ 0.0 to 19.9 20.0 to 199.9 200 to 1999	mS/m 2.00 to 19.99 20.0 to 199.9 200 to 1999	S/m 2.00 to 19.99 20.0 to 200.0
Resolution	Auto ranging, up to 4 significant digits					
Accuracy	$\pm 0.5\%$ full scale of each range $> 200 \text{ mS/cm (20.0 S/m): } \pm 1.5\%$ 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	$\pm 0.5\%$ 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	$\pm 0.5\%$ of reading or ± 0.1 mg/L, whichever is greater					
TDS Curves	Linear (0.40 to 1.00), EN27888, 442, NaCl					
Resistivity Range	$\Omega\cdot\text{cm}$ 0.1 to 199.9 200 to 1999	$\text{k}\Omega\cdot\text{cm}$ 2.00 to 19.99 20.0 to 199.9 200 to 1999	$\text{M}\Omega\cdot\text{cm}$ 2.00 to 19.99 20.0 to 200.0	$\Omega\cdot\text{m}$ 0.001 to 1.999 2.00 to 19.99 20.0 to 199.9 200 to 1999	$\text{k}\Omega\cdot\text{m}$ 2.00 to 19.99 20.0 to 199.9 200 to 2000	
Resolution	Auto ranging, up to 4 significant digits					
Accuracy	$\pm 0.5\%$ full scale of each range $> 200 \text{ mS/cm (20.0 S/m): } \pm 1.5\%$ 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		

2-Cell Conductivity Sensor Cartridge

Model

300-2C-C

Part No.	3200820579
Cell Constant	0.1 cm^{-1}
Conductivity Range	0.01 $\mu\text{S/cm}$ to 500 $\mu\text{S/cm}$
Operating 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	Stainless steel

4-Cell Conductivity Sensor Cartridge

Model

300-4C-C

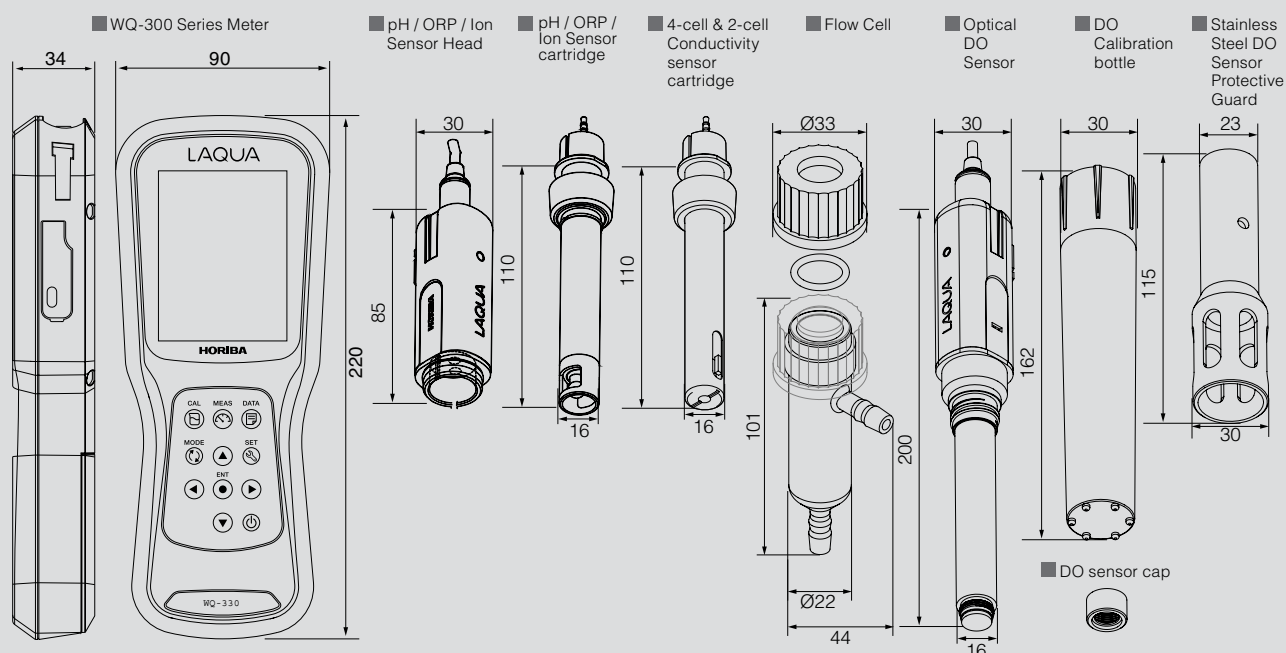
Part No.	3200780928
Cell Constant	0.172 cm^{-1}
Conductivity Range	10 $\mu\text{S/cm}$ to 2000 mS/cm
Operating Temperature Range	0 to 100 °C 32.0 to 212.0 °F
Temperature Sensor	Built-in
Length and Diameter	110 x 16 mm
Body Material	Epoxy, carbon

LAQUA WQ-300 Series | Smart Handheld Water Quality Meters

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		

*Applicable to pH calibration. Appears when pH sensor is connected.

■ Dimensions (Unit: mm)



Accessories & Solutions

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



NIST pH Buffers Kit 501-S



USA pH Buffers Kit 502-S



ORP Standard Solution 225 mV

ORP Standard Solution & Powders

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



ORP Powders

Conductivity Standards

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



Conductivity Standards Kit 503-S

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



230
Cleaning Solutions

Ion Standard Solutions

Part No.	Model	Description
3200697172	500-NH4-SL	100 mg/L Ammonium Ion Standard Solution, 500 ml
3200697171	500-NH4-SH	1000 mg/L Ammonium Ion Standard Solution, 500 ml
3200697176	500-CA-SL	100 mg/L Calcium Ion Standard Solution, 500 ml
3200697175	500-CA-SH	1000 mg/L Calcium Ion Standard Solution, 500 ml
3200697168	500-CL-SL	100 mg/L Chloride Ion Standard Solution, 500 ml
3200697167	500-CL-SH	1000 mg/L Chloride Ion Standard Solution, 500 ml
3200697164	500-F-SL	100 mg/L Fluoride Ion Standard Solution, 500 ml
3200697163	500-F-SH	1000 mg/L Fluoride Ion Standard Solution, 500 ml
3200697180	500-NO3-SL	100 mg/L Nitrate Ion Standard Solution, 500 ml
3200697179	500-NO3-SH	1000 mg/L Nitrate Ion Standard Solution, 500 ml
3200697184	500-K-SL	100 mg/L Potassium Ion Standard Solution, 500 ml
3200697183	500-K-SH	1000 mg/L Potassium Ion Standard Solution, 500 ml
3200987464	500-NA-SL	100 mg/L Sodium Ion Standard Solution, 500 ml
3200987463	500-NA-SH	1000 mg/L Sodium Ion Standard Solution, 500 ml



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

3200697174	500-NH3-ISA	Ammonia Ionic Strength Adjustor, 500 ml	
3200987466	500-NH4-ISA	Ammonium Ionic Strength Adjustor, 500 ml	
3200697178	500-CA-ISA	Calcium Ionic Strength Adjustor, 500 ml	
3200697170	500-CL-ISA	Chloride Ionic Strength Adjustor, 500 ml	
3200697166	500-F-TISAB	Fluoride Ionic Strength Adjustor, 500 ml	
3200697182	500-NO3-ISA	Nitrate Ionic Strength Adjustor, 500 ml	
3200697186	500-K-ISA	Potassium Ionic Strength Adjustor, 500 ml	
3200987465	500-NA-ISA	Sodium Ionic Strength Adjustor, 500 ml	



Ammonium Ionic Strength Adjustor



Sodium Ionic Strength Adjustor

Ion Selective Electrode Filling Solutions

3200697173	500-NH3-IFS	Ammonia Electrode Filling Solution, 500 ml
3200697177	500-CA-IFS	Calcium Electrode Filling Solution, 500 ml
3200697169	500-CL-IFS	Chloride Electrode Filling Solution, 500 ml
3200697165	500-F-IFS	Fluoride Electrode Filling Solution, 500 ml
3200697181	500-NO3-IFS	Nitrate Electrode Filling Solution, 500 ml
3200697185	500-K-IFS	Potassium Electrode Filling Solution, 500 ml



Sodium Ion Standard Solutions

Sensors, Cartridges, and Tips

Part No.	Model	Description
3200786363	300-P-C	pH sensor cartridge
3200922104	300-O-C	ORP sensor cartridge
3200780928	300-4C-C	4-cell conductivity sensor cartridge
3200820579	300-2C-C	2-cell conductivity sensor cartridge
3200781554	300-D-M	Optical DO sensor cap
3014046710	9300-10D	ORP electrode with flat platinum tip and temperature sensor
3200986783	300-NH4-C	Ammonium sensor cartridge
3200986786	300-CA-C	Calcium sensor cartridge
3200986784	300-NO3-C	Nitrate sensor cartridge
3200986785	300-K-C	Potassium sensor cartridge
3200986787	300-NA-C	Sodium sensor cartridge
3200698386	5002S-10C	Amonia 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



Ammonia electrode membrane caps



Calcium electrode tip



Chloride electrode tip



Fluoride electrode tip



Nitrate electrode tip



Potassium electrode tip



300-BNC Sensor Head Adapter



X-51 Digital Simulator

Accessories

Part No.	Model	Description
3200844642	—	Flow Cell (for 300-2C-C)
3200821465	300-BNC	pH/ORP/Ion sensor head adapter
3200921588	300-EXT-10	10-m sensor head extension cable
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	—	Black pH sensor tip guard (for 200 series, 300 series), 3pcs/pack
3200043508	—	Electrode protection caps, 5pcs/pack

Sensor heads (including DO sensor cap) and cartridges are covered under warranty against manufacturing defects for 12 months and 6 months, respectively.



10-m sensor head extension cable

25-pin D-sub printer cable



Printer



Printer paper



Printer ink ribbon



Electrode protection cap

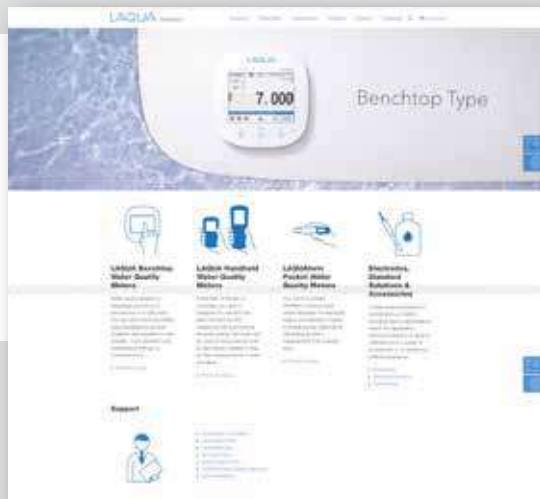


Flow Cell



Black pH sensor tip guard

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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Channel on YouTube and subscribe to see more of our videos.



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