

LAQUA

LAQUA WQ-300 Series Smart Handheld Water Quality Meters



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





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HORIBA

Explore the future





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 builtin 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.



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.

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.

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.



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.





Multi-Language Options

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

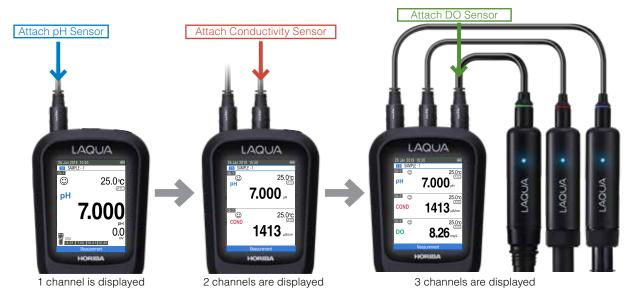


Simultaneous Calibrations and Measurements

Applicable for dual- and triplechannel 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.





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

\$13

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





Sensor Status Indicator

Sensor icon presents the sensor condition after calibration.





Temperature Sensor Indicator



Temperature sensor is connected to meter

26 Jan 2019 10:30 Ch 1 SAMPLE - 1 \odot 25.0°C pH 7.000 рH

USA 4.01 7.00 10.01 12.45 Temperature sensor is not connected to meter

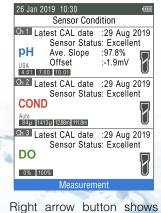
0.0

Sample ID



Use up to eight characters for creating Sample ID.

Calibration Data



the latest calibration data.



Measurement Modes







DH DH DH

Customizable Meter Kit

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

Up to 55 possible meter + sensor combinations





Choose your meter*:

Choose your sensor kit:





HORIBA's Smart digital sensor technology

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

4-Cell conductivity sensor

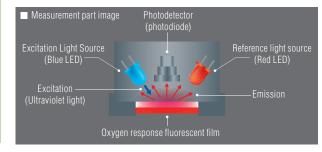
Wide range of conductivity measurements possible

- 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

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



lon 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
- 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







Sensor and Meter Specifications

pH Sensor Head	d pH / mV / Temp (°C/°F)	
Model	300PH-2	300PH-5
Part No.	3200812206	3200812207
pH Range		20.00 pH 20.000 pH
Resolution		00: 0.01 рН 200: 0.001 рН
Accuracy		0.00: ±0.01 .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		130.0 °C 266.0 °F
Resolution	0.1 °	C/°F
Accuracy	±0.5 °C,	/ ±0.9 °F
Calibration Option	Y	es
Body Material	ABS / Poly	vcarbonate
Length and Diameter	85 x 3	80 mm
Connector	Push-pull	
Cable Length	2 m	5 m

pH Sensor Cart	ridge 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 Senso	r DO (mg/L, %) / C) / 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 sen	
Barometric Pressure Compensation	Auto: by built-in baromete kF	
Calibration Points	Upi	to 2
Oxygen Range 0.0 to 50.0%		50.0%
Resolution 0.1%		1%
Accuracy	±0.	5%
Temperature Range	-30.0 to -22.0 to 2	
Resolution	0.1 °C	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	

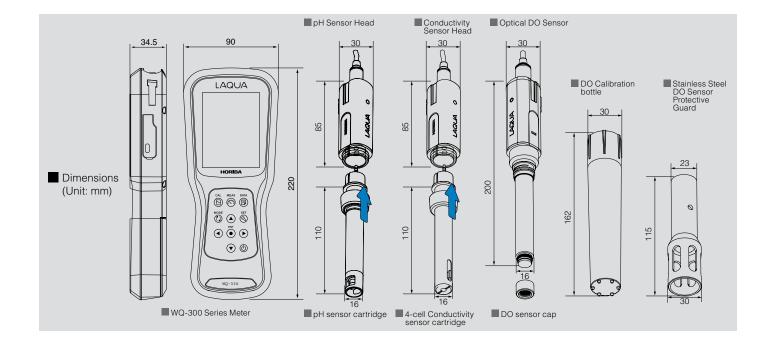
Dissolved Oxygen Sei	nsor Cap
Model	300-D-M
Part No.	3200781554
DO Range	0.00 to 20.00 mg/L 0.0 to 200.0 %
Temperature Range	0 to 50.0 °C 32.0 to 122.0 °F
Length and Diameter	10 x 16 mm
Body Material	PVC, PMMA

	sor Head EC/Sal/T	
Model	300-C-2	300-C-5
Part No.	3200784468	3200812202
Conductivity Range	μS/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 19.99 20.0 to 199.9 200 to 2000	μS/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 19.99 20.0 to 20.0
Resolution	Auto ranging, up to	4 significant digits
Accuracy	± 0.5% full sca	le of each range S/m): ± 1.5% full scale
Reference Temperature	15 to	30°C
Temperature Coefficient		0.00 %/°C
Calibration Points	1 1 1	Up to 5 (Manual)
Units		n, S/m
Salinity Range		30.00 ppt 8.000 %
Resolution		, 0.001 %
Accuracy	v	1 ppt, whichever is greater
Salinity Curves		(UNESCO 1978)
Calibration Option	Ŷ	es
Total Dissolved Solids (TDS) Range	0.01 mg/L to 200,000 mg/L	
Resolution	,	significant digits
Accuracy	~	mg/L, whichever is greater
TDS Curves Resistivity Range	$\begin{array}{c} \Omega \bullet \text{cm} \\ \Omega \bullet \text{cm} \\ 0.1 \text{ to } 199.9 \\ 200 \text{ to } 1999 \\ \kappa \Omega \bullet \text{cm} \\ 2.00 \text{ to } 19.99 \\ 200 \text{ to } 199.9 \\ 200 \text{ to } 199.9 \\ \Omega \Omega \bullet \text{cm} \\ 2.00 \text{ to } 19.99 \\ \Omega 00 \text{ to } 19.99 \\ 20.0 \text{ to } 19.99 \\ 20.0 \text{ to } 200.0 \end{array}$	EN27888, 442, NaCl $\Omega \bullet m$ 0.001 to 1.999 2.00 to 19.99 200 to 199.9 200 to 1999 $k\Omega \bullet m$ 2.00 to 19.99 2.00 to 19.99 20.0 to 199.9 200 to 2000
Resolution	Auto ranging, up to) 4 significant digits
Accuracy	± 0.5% full sca	le of each range S/m): ± 1.5% full scale
Temperature Range		130.0 °C 266.0 °F
Resolution	0.1 °	C/°F
Accuracy	±0.5 °C,	/ ±0.9 °F
Calibration Option	Y	es
Body Material	· .	ycarbonate
Length and Diameter		30 mm
Connector		1-pull
Cable Length	2 m	5 m

Part No.	3200780928
Cell Constant	0.172 cm ⁻¹
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
der aus	and the second s

Ion Sensor Hea	d Ion / mV / Temp (°C/°F)
Model	300-1-2
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 He	ad ORP / Temp (°C/°F)
Model	300-0-2
Part No.	3200812204
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



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, Japa	nese, French, German, Spanish, Portugu	uese, 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 / poly	vcarbonate)
Power Requirement	4 x AA batterie	es / battery pack or USB charger with mi	cro USB cable
Battery Life	> 100 hours	(with display brightness 3 and no senso	r connected)
Dimensions		220 (L) x 90 (W) x 34 (H) mm	
Weight	Approx. 40	0g (batteries included), 320 g (batteries	excluded)
Standard Accessories	Carrying case, 4 >	AA batteries, wireless SD card, manual	l, and quick guide
		Strength Walland	

Accessories & Solutions

pH Buffers	S	
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

ORP Powders				
Part No.	Model	Description		
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)	\$ (!)	

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

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

Ionic Strength Adjustors

3200697174	500-NH3-ISA
3200697178	500-CA-ISA
3200697170	500-CL-ISA
3200697166	500-F-TISAB
3200697182	500-NO3-ISA
3200697182	500-K-ISA

Ammonia Ionic Strength Adjustor Calcium Ionic Strength Adjustor Chloride Ionic Strength Adjustor Fluoride Ionic Strength Adjustor Nitrate Ionic Strength Adjustor Potassium Ionic Strength Adjustor

Ion Selective Electrode Filling Solutions						
3200697173	500-NH3-IFS	Ammonia Electrode Filling Solution				
3200697177	500-CA-IFS	Calcium Electrode Filling Solution				
3200697169	500-CL-IFS	Chloride Electrode Filling Solution				
3200697165	500-F-IFS	Fluoride Electrode Filling Solution				
3200697181	500-NO3-IFS	Nitrate Electrode Filling Solution				
3200697181	500-K-IFS	Potassium Electrode Filling Solution				







Conductivity Standards Kit 503-S



Calcium Ion Electrode Solutions



Chloride Ion Electrode Solutions



Fluoride Ion Electrode Solutions



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Ammonia Ion Electrode Solutions



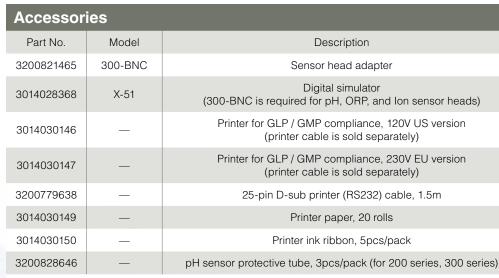
Nitrate Ion Electrode Solutions

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

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 sense
	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



*Sensors carry 6-month warranty against manufacturing defects.



Printer paper



25-pin D-sub printer cable





Cleaning Solutions



Ammonia electrode membrane caps

Calcium electrode tip



Chloride electrode tip







Potassium electrode tip





X-51 Digital Simulator

Printer

pH sensor protective tube

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Water Quality Analyzers

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.



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, applicationfocused models for small samples or large containers, and special electrodes for specific sample characteristics.

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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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Asia Pacific

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