

LAQUAtwin

Waterproof Pocket Water Quality Meters













Management















Applications





pH and Conductivity Measurements in Coconut Coir Substrate

Coconut coir testing involves extracting a sample solution with distilled water and measuring the pH and conductivity of the extract. The acceptable conductivity ranges for 1:2 (v/v) dilution and pour thru sampling methods are

0.26-0.75 mS/cm 1.0-2.6 mS/ and respectively. The ideal pH range is 5.4-6.2 for both methods.





Determination of Nutrient Concentrations in Soil Solution and Tomato

Fertigation management requires rapid and accurate methods to determine nutrient concentrations in soil solution and plant sap. Folegatti et al (2005) found that the concentrations of NO₂-, K+, and Na+ in soil solution and tomato plant sap determined by LAQUAtwin ion pocket meters showed good correlations with those obtained in soil solution and in leaf dry matter, respectively, determined by standard methods in laboratory, and concluded that Scan QR Code for link

LAQUAtwin ion pocket meters are low-cost tools in fertigation management.





Measurement of pH in Plant Tissue

An optimal pH value of 6.4 in plant tissue will encourage healthy growth and prevent insects and diseases attacking the plant. To measure pH, squeeze the sap of mature leaves Scan QR Code for link with garlic press and place the sap onto the sensor of LAQUAtwin pH





Conductivity and Elephant's Foot **Testing**

Elephant's foot is a physiological disorder in pepper sweet (Capsicum annuum L.), where the base of the plant's stem becomes swollen below the cotyledon level and wounds develop at the base of the stem's epidermis because of salt accumulation. LAQUAtwin conductivity meter can used to measure conductivity of soil and help farmers choose the best land to grow sweet pepper crops.



Soil pH and Nutrient **Availability**

The desirable soil pH range for optimum plant growth varies among crops. Generally, soil pH 6.0-7.5 is acceptable for most plants as most nutrients become available in this pH range. Soil pH can be determined Scan QR Code for link

by mixing soil sample with water and then measuring resulting aqueous solution.





Soil Nitrate Measurement for **Determination of** Plant-Available Nitrogen

Nitrate concentration in soil is a good indicator of available nitrogen to plants. The required soil nitratenitrogen (NO₃-N) for

specific crops varies from crop to crop but in general, a concentration range of 10-50 mg/kg is desired.



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meter.



Soil Salinity Measurement in Almond Orchard

Crops have different levels of tolerance to salinity. Testing soil salinity is the best way to check soil condition in the orchard before salt damage occurs. The $\mathrm{EC}_{1:5}$ test is used to estimate Scan QR Code for link

soil salinity (EC_a). The soil salinity threshold value for almond is 1.5 mS/





Impact of Soil Salinity on Sugar Cane Yield

Soil salinity adversely affects the growth of sugar cane crops. To help optimize sugar cane yield, check the sodium content in soil

by mixing it with Scan QR Code for link water in 1:5 ratio and measuring the resulting solution with LAQUAtwin sodium ion meter.



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Measurement of Calcium in Soil

Calcium is one of the essential nutrients taken up by plants from soil for cell wall development. To measure calcium concentration in soil, extraction with 1M ammonium

acetate and filtration should be performed prior to placing the filtrate onto the flat sensor of LAQUAtwin calcium ion meter







Measurement of Potassium in Soil

In laboratories, potassium in soil is extracted with 1M ammonium acetate and analyzed with Atomic Absorption (AA) or Inductivity Coupled Plasma-Optical Emission Spectrometry (ICP-OES). LAQUAtwin potassium ion meter showed values higher than those of ICP-OES. However, with 0.01M ammonium acetate extraction, good correlation Scan OR Code for link (r=0.981, r2=0.962)

was obtained between ICP-0ES and LAQUAtwin potassium ion meter.



Potassium Determination in Plant Tissue

Comparison of LAQUAtwin Potassium Ion Meter and ICP Spectrometry Trials revealed close significant correlation (r values were 0.80 and 0.93 for first and second trials, respectively) between the LAQUAtwin potassium ion meter readings and ICP results obtained from plant's fresh petiole sap and dried tissue, respectively. This suggested that LAQUAtwin potassium ion meter could be an appealing

an appealing field method substitute for rapid determination of potassium concentration in plants.





Measurement of Potassium in Rice

Potassium is one of the essential plant nutrients supplied via fertilizer in most irrigated rice fields. Extracting sap from the lower stem of plant rice and analysing it with LAQUAtwin potassium meter provide indication.

of the current potassium status and help farmers adjust the fertilizer application.







Rapid In-Field Determination of Nitrogen in Onions

Fresh root sap analysis with LAQUAtwin nitrate ion meter offers cost-effective, rapid, and easy solution to determine nitrogen status in onion plants. The nitratenitrogen (NO₃-N) concentrations in onion vary at different growth stages.

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stages. The acceptable root sap NO₃-N concentration range for 0.5 to 1.5-inch onion bulbs is 350 to 500 ppm.







Nitrate Measurement in Turf Grass

Nitrate concentration in grasses can be used as an indicator of soil nitrogen (N) availability for their growth. Research at the University of Connecticut suggests verdure sap nitrate-N concentrations at 200-300 ppm as the optimum level.



Quick Nutrient Analysis in Strawberry Production

Regular monitoring of nutrient levels such as nitrate (NO_3^{-}), potassium (K^*) and calcium (Ca^{2*}) in plant petioles, soil solution, irrigation water, and drain water produces not only good yield and fruit quality, but also reduces fertilizer cost and mitigates environmental hazards. The LAQUAtwin pocket meters are the perfect tools for testing as they directly measure samples and provide results

in just few seconds allowing growers to identify and correct any nutrient deficiency or excess immediately.









pH and Conductivity for Testing Acrylic Paint Films and Paper Supports and Formulating Aqueous Cleaning Solutions

Isotonic aqueous cleaning solutions that match the pH and conductivity readings of acrylic paint films and paper supports obtained from agarose gel pellets have been shown to be effective in reducing or removing Scan OR Code for link

dirt, dust, active mold growth and associated stains, tide line stains, and discoloration.



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Aguarium Water Testing

Testing aguarium water such as freshwater and saltwater (either natural or artificial seawater) with reliable instruments is necessary to create a clean and safe environment for your aquatic species. The LAQUAtwin pocket Scan QR Code for link

meters require only few drops of water and deliver the results in just few seconds



pH Measurement in the Acidification of Fermented Sausages

Lowering pH or increasing acidity of meat has become main hurdle against pathogenic bacteria in sausage making. ph is used in the course of Scan QR Code for link pH is used

fermentation process in order to produce microbiologically stable product that has a pH value of 5.3 or less.



pH of Brine for Canned Food Testing

For brine of canned acid foods, the equilibrium pH value must be 4.6 or below to inhibit the growth Clostridium botulinum, the most heat resistant of the food pathogen



pH Measurement to **Determine Freshness** of Meat Products

Fresh meat must have a pH value in the range of 5.5 to 6.2 before selling to consumers. LAQUAtwin pH meter provides Scan QR Code for link

a simple and cost effective way to check the freshness of meat in the local markets.









microorganisms.



Determination of Sodium Content in **Food Samples**

Foods contain varying amounts of salt (NaCl), which has 40% sodium. Determining the sodium content in foods accurately reduces the health risks associated with it. The American Heart Association recommends consumption of less

than 1500 mg/day sodium for most American adults, which is the level with the greatest effect on blood pressure.



Sodium Value Check

for Canned Food

There is a growing concern on canned foods with large sodium content as excessive intake of sodium can cause high blood pressure and hypertension. To check the sodium content in canned food, dilute a sample Scan QR Code for link with DI water in 1:5

ratio, then place the resulting solution onto the LAQUAtwin solution sodium ion meter.



pH Measurement to Determine Acidification of Sushi Rice

The rice used for sushi must be acidified with acetic acid (vinegar) to pH less than 4.6 to inhibit the growth of pathogenic bacteria. To measure pH, simply Scan QR Code for link

place a sample of rice mixture onto the flat sensor of LAQUAtwin meter.



pH Measurement of Pickled Fruits and **Vegetables**

Pickling is a process of preserving fruits and vegetables in brine, oil, water or vinegar. The Australia New Zealand Food

Code Scan QR Code for link Standard 2.3.1 requires the preserved fruits and vegetables to have a pH not greater than 4.6 to prevent botulism.









Measurement of Calcium in Milk and Milk Beverages

Determining the calcium content of milk and milk beverages helps consumers accurately gauge their calcium intake. Unlike atomic absorption spectroscopy (AAS) and inductively coupled plasma atomic emission spectroscopy (ICP), the LAQUAtwin calcium

ion meter offers a simpler method of measuring calcium ion-ionizing proteinbound calcium in sample using acid before analysis.





Measurement of Sodium in Athlete's Sweat

Determining sodium the in sweat and concentration replacing that with proper electrolyte intake prevent fluid and electrolyte imbalances. Sweat can be easily extracted from sterile patches applied on skin and tested with LAQUAtwin sodium ion meter. According

to Gatorade Sports Scan QR Code for link Science Institute. the sodium results obtained with HORIBA falls within 15.4 mEg/L 95% of the time.





Nitrate Measurement in Hybrid Sudangrass and Pearl Millet Havs

Determining the concentrations of sudangrass and pearl millet before feeding them to livestock prevents nitrate toxicity. Plant sap testing with LAQUAtwin B-743 nitrate ion meter offers fast and accurate nitrate in-field analysis. Generally, the maximum nitrate

concentrations Scan QR Code for link considered safe for all cattle are 820 ppm and 700 ppm for sudangrass sap and pearl millet sap, respectively.







Residual Sodium Check During Cleanin-Place Process

Caustic soda or sodium hydroxide (NaOH) is the chemical commonly used in alkaline cleaning solution for clean-in-place (CIP) in process plants. Measuring the sodium ion concentration on the

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water rinse or swab can indicate whether residual chemical has been removed properly from the process equipment.







pH of Cement for Floor Installation Testing

Fresh concrete is usually very alkaline, above pH 11. When the alkalinity in a concrete subfloor is high, it can stop the floor covering adhesive from bonding properly to the concrete. Australian Standard 1884 for resilient flooring states Scan QR Code for link installation

the the pH level of the concrete surface should be between 9 and 10 before the flooring can be installed.







Measuring Salinity of Water

Measuring the salinity or the dissolved salt content of water is important as aquatic organisms, livestock, and crops thrive at different salinity levels. Freshwater salinity

has a salinity value of less than 0.5 ppt while seawater has an average salinity of 35 ppt.

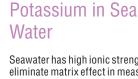




Measurement of Calcium in Drinking Water

Determining the calcium content of drinking water helps consumers accurately gauge their calcium intake. Unlike atomic absorption spectroscopy (AAS) and inductively coupled plasma atomic emission spectroscopy (ICP), the LAQUAtwin calcium ion meter offers a simpler method of Scan QR Code for link measuring calcium

ion - ionizing bound calcium in water using acid before analysis.



Seawater has high ionic strength. To eliminate matrix effect in measuring (K+) concentration, potassium standard solutions made with the same background as the seawater sample are recommended for calibration. The result of measurement using Scan QR Code for link

LAQUAtwin Potassium Ion meter is within $\pm 10\%$ of seawater typical concentration.





AQUAtwi

Compact Water Quality Meter

Lab in your pocket LAQUAtwin compact meters are simple and easy-to-use.

10 Water Quality Parameters: pH, ORP, Conductivity, Total Dissolved Solids (TDS), lons (Na+, K+, NO,-, Ca2+, F-) and Salt

Employing the same test principle as laboratory electrodes, LAQUAtwin compact meters provide a reliable and accurate measurement. Select your meter that best suits your application from 13 colorful models.



Quick!

No container is needed to calibrate or measure. Only few drops of standards and samples are all you need.

Reliable!

HORIBA 60 years

sensor technology

distilled in HORIBA's

unique flat sensor.

Variety!

Measurements can be made in different positions because of the sensor design.

Cost effective

1/100 of standard

solution and

sample volume is

needed. Sensor is

replaceable.



Anyone!

Easy & simple operation makes everyone an expert.

Solution!

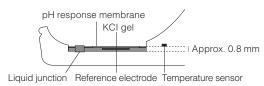
Discover more with easy, on-site measurement.

Wherever!

IP67 rated dust/ waterproof. Carry LAQUAtwin and its accessories in a carrying case.

Accurate reading from a single drop of sample in just a few seconds

Incorporating the same parts as standard laboratory electrodes, the LAQUAtwin compact meters are built with miniaturized components and unique flat sensor chip, which is less than 1 mm thick—a result of 60 years of HORIBA's sensor engineering technology.



Cross-sectional view of the flat pH sensor chip.

Carrying case comes with calibration

solutions and accessories

Everything you need for measurement is already packed in a carrying case for portability and storage. Also, you may attach a strap or tag (not included) on the strap hole of the meter for your convenience.



Calibrate and measure at the touch of a button. Read the result when \odot appears.

Hassle-free operation with single-button calibration and measurement. Record the reading once a smiley face appears on the display

Fully waterproof and dustproof (IP67 rated)1 with backlight display

The LAQUAtwin compact meters can be used anywhere and anytime. No need to worry with water splashes or inclement weather during measurement. With the meter's backlight display, you may view the reading in testing sites with poor light condition.

underwater use

¹Withstand immersion for 30 minutes at 1m depth. Not suitable for





Easy measurement for all users

LAQUAtwin





When you're in the lab, you can test the sample in a beaker. Ensure the sensor guard sliding cap is open.



Scoop

Use as a scoop to test water from a river. Vertical scoop is available with a unique sensor guard.

Drops

Drop a sample with a dropper; small volumes as 0.1 mL can be measured. Using sampling sheet B, volumes down to 0.05 mL can be tested.



Unique measurement options with LAQUAtwin

One meter provides seven flexible measurement techniques. Simply choose the method that best fits your sample and situation.



Wipe

The sampling sheet allows tiny, trace volumes to be analysed. For example, wipe off the surface of the skin with a sampling sheet soaked with pure water and measure.

Solid samples

Foods containing some moisture can be tested by placing a small piece directly onto the sensor.



Powders

LAQUAtwin meters can also test dry powders. Simply place the powder sample onto the sensor, and add an appropriate amount of pure water.



Paper, textiles and films

To test sheets of paper and textiles, cut up the sample into small pieces and place them directly onto the sensor then add a defined amount of pure water.

All methods applicable to pH measurement. Conductivity models cannot be tested with solids, powders, and sheet-like samples. Above pictures are for illustration purposes only.



		рН		ORP
Model	pH-11	pH-22	pH-33	ORP-11
Features	WATER PROOF VOLUME CAL 0.1 pH	WATER PROOF VOLUME 3 PT CAL 0.01 pH	WATER MICRO TO CAL 0.01 pH	WATER MICRO 1 PT CAL
Part No.	3999960122	3999960123	3999960124	3200965260
Measurement Principle	Glass Electrode		ORP Electrode	
Min. Sample	0.1 ml (0.05 ml with Sampling Sheet B)			0.3 ml (0.05 ml with Sampling Sheet B)
pH Range / Resolution	0.0 to 14.0 pH / 0.1 pH	0.10 pH 0.00 to 14.00 pH / 0.01 pH		-
mV Range / Resolution	-650 to 650 mV / 1 mV		-1000 to 1000 mV / 1 mV	
Accuracy	± 0.1 pH	± 0.0	11 pH	± 2 mV
Max. Calibration Points	2	3	5	1
Calibration Curves	USA: 1.68, 4.01, 7.00, 10.01 & 12.46 NIST: 1.68, 4.01, 6.86, 9.18 & 12.46			225 mV
Temperature Display / Resolution	- 0 to 50.0			°C / 0.1 °C
Functions	Automatic Buffer Recognition			ORP and Eh Measurements • Automatic Standard Recognition • Auto / Custom Calibration Value
	Temperature Compensation • Temperature Calibration* • Auto Hold / Auto Stable • Automatic Power Off (30 mins.) • Low Battery Indicator • IP67 Water / Dust proof • Replaceable Sensor			
Display	Custom (monochrome) digital LCD with backlight			
Operating Temperature / Humidity	5 to 40.0 °C / ≤ 85% in relative humidity (no condensation)			
Battery Life	Approx. 400 hrs. continuous use without backlight			
Materials	ABS epoxy body / flat glass sensor ABS epoxy body / platinum disk sensor			
Dimensions	164 x 29 x 20 mm (excluding projections)			
Mass	Approx. 55g (including sensor and batteries)			
Accessories included	pH 7.00 & 4.01 Buffers (14 ml each)			225 mV ORP Standard (14 ml) • Abrasive Cotton Swab • Sampling Sheet B (5 pcs)
	CR2032 Batteries (2 pcs) • Dropper • Instruction & Quick Manuals • Storage Case			

^{*} Applicable for models with temperature display



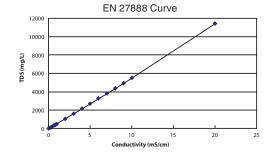


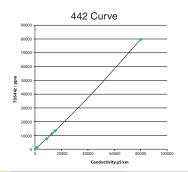
	Conductivity (EC)		Salt (NaCl)	
Model	EC-11	EC-22 COD Temp	EC-33 OND TDS Temp	Salt-11 Salt Temp
Features	WATER PROOF CAL -19.9 mS/com	WATER MICRO 3 PT CAL -199.9 mS/com	WATER PROOF VOLUME 3 PT CAL mS/com	WATER PROOF VOLUME 2 PT CAL CONV
Part No.	3999960125	3999960126	3999960127	3999960128
Measurement Principle			e Bipolar AC	
Min. Sample			2 ml	
Measurement Range /	Conductivity 0 to 199 µS/cm (1 µS/cm) 200 to 1999 µS/cm (1 µS/cm) 2.00 to 19.99 mS/cm (0.01 mS/cm)	Conductivity 0 to 199 µS/cm (1 µS/cm) 200 to 1999 µS/cm (1 µS/cm) 2.00 to 19.99 mS/cm (0.01 mS/cm) 20.0 to 199.9 mS/cm (0.1 mS/cm)		Salt 0.0 to 100.0 g/L (0.1 g/L)
Resolution	_		TDS 0.0 to 99.9 ppm (0.1 ppm) 100 to 999 ppm (1 ppm) 1000 to 9990 ppm (10 ppm)	Salt 0.00 to 10.00 % (0.01 %)
Accuracy	± 2% full scale (for each range)	± 2% full scale (0 to 19.99 mS/cm) ± 5% full scale (20.0 to 199.9 mS/cm)		± 2% full scale (0.0 to 9.9 g/L) ± 4% full scale (10.0 to 100.0 g/L)
Max. Calibration Points	2	3		2
Calibration	1413 μS/cm, 12.88 mS/cm	1413 µS/cm, 12.88 mS/cm, 111.8 mS/cm		
Curves	_		TDS Factor (0.4 to 1.0) / EN 27888 / 442 / NaCl	NaCl / Sea water
Temperature Display / Resolution	_	0 to 50.0 °C / 0.1 °C		
Functions	Automatic Range • Automatic Standard Recognition • Temperature Compensation (2%/°C fixed) • Temperature Calibration* • Auto Hold / Auto Stable • Automatic Power Off (30 mins.) • Low Battery Indicator • IP67 Water / Dust Proof • Replaceable Sensor			
Display	Custom (monochrome) digital LCD with backlight			
Operating Temperature & Humidity	5 to 40 °C, ≤ 85% in relative humidity (no condensation)			
Battery Life	Approx. 400 hrs. continuous use without backlight			
Material	ABS epoxy body / Titanium coated with platinum black sensor			
Dimensions	164 x 29 x 20 mm (excluding projections)			
Mass		Approx. 50g (including sensor and batteries)		
Accessories included	1413 µS/cm & 12.88 mS/cm Conductivity Standard Solutions (14 ml each)			0.5% & 5.0% NaCl Standard Solutions (14 ml each)
inoluded	Conditioning Solution (4 ml) • CR2032 Batteries (2 pcs) • Dropper • Instruction & Quick Manuals • Storage Case			

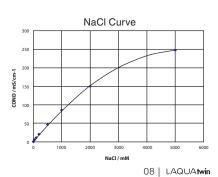
*Applicable for models with temperature display

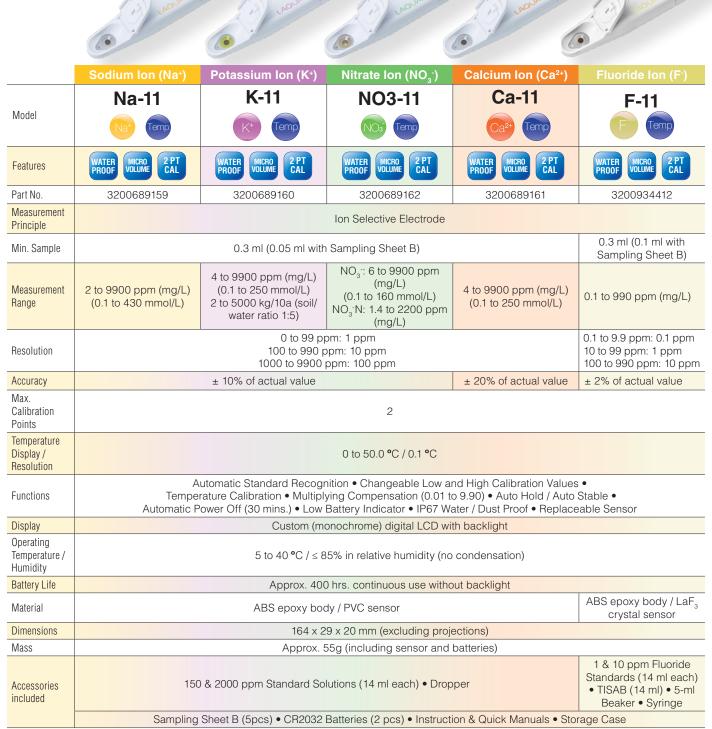
TDS Calibration Curves

Application	Key chemical species	TDS selection	
Aquaculture, pickling	NaCl	NaCl	
Boiler water, HVAC	Na ₂ SO ₄ , NaHCO ₃ , NaCl 442		
Environmental EN standard for environmental water EN 27888		EN 27888	
General application	KCI	TDS Factor Linear Default: 0.5 Selectable: 0.4 to 1.0	





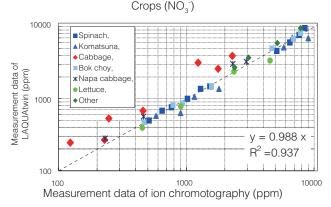


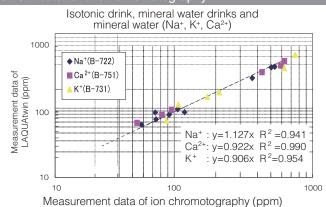


^{*} Applicable for models with temperature display

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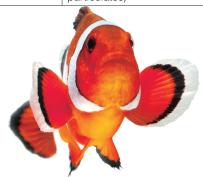


Solutions & Accessories

	LAQUAtwin Replacement Sensors		
Ī	Part No.	Model	Description
	3200459834	S010	pH Sensor (for B-711, B-712, B-713, pH-11, pH-22 & pH-33)
	3200459866	S021	Salt Sensor (for B-721)
	3200459867	S022	Sodium Ion Sensor (for B-722 & Na-11)
	3200459868	S030	Potassium Ion Sensor (for B-731 & K-11)
	3200459870	S040	Nitrate Ion Sensor (for B-741, B-742, B-743, NO3-11, NO3-11C & NO3-11S)
	3200459869	S050	Calcium Ion Sensor (for B-751 & Ca-11)
	3200459672	S070	Conductivity Sensor (for B-771, EC-11, EC-22, & EC-33)
	3200597237	S071	Salt EC Sensor (for Salt-11)
	3200934450	S060-F	Fluoride Ion Sensor (for F-11)
	3200997083	S080-ORP	ORP Sensor (for ORP-11)

LAQUAtwin Standard Solutions (6 x 14ml bottles per pack)		
Part No.	Model	Description
3999960108	514-4	pH 4.01 Buffer
3200691954	514-686	pH 6.86 Buffer
3999960109	514-7	pH 7.00 Buffer
3999960110	514-22	1413 µS/cm Conductivity Standard Solution
3999960111	514-23	12.9 Conductivity Standard Solution
3999960112	514-05	0.5% NaCl Standard Solution
3999960113	514-50	5.0% NaCl Standard Solution
3999960114	514-20	Conditioning Solution (For Conductivity & Salt Sensors)
3200457723	Y022H	2000ppm Sodium Ion Standard Solution
3200457724	Y022L	150ppm Sodium Ion Standard Solution
3200457719	Y031H	2000ppm Potassium Ion Standard Solution
3200457720	Y031L	150ppm Potassium Ion Standard Solution
3200053433	Y041	5000ppm Nitrate Ion Standard Solution
3200053514	Y042	300ppm Nitrate Ion Standard Solution
3200053532	Y043	2000ppm Nitrate Ion Standard Solution
3200053535	Y044	30ppm Nitrate Ion Standard Solution
3200053536	Y045	150ppm Nitrate Ion Standard Solution
3200457727	Y051H	2000ppm Calcium Ion Standard Solution
3200457728	Y051L	150ppm Calcium Ion Standard Solution
3200991628	514-F-1	1ppm Fluoride Ion Standard Solution
3200991630	514-F-10	10ppm Fluoride Ion Standard Solution
3200991632	514-F-TISAB	TISAB Solution
3200997084	514-ORP-225	225 mV ORP Standard Solution

LAQUAtwin Accessories			LAQUAtwin Accessories
Ī	Part No.	Model	Description
	3200053858	Y046	Sampling Sheet B (100pcs) for minute samples (≥ 0.05ml)
	3200459736	Y048	Sampling Sheet Holder (use with sampling sheet B for samples with particulates)



LAQUAtwin



LAQUAtwin Replacement Sensors







pH Buffers

Conductivity Standard Solutions

NaCl Standard Solutions







Sodium Ion Standard Solutions

Potassium Ion Standard Solutions

Calcium Ion Standard Solutions









Fluoride Ion Standard Solutions

TISAB Solution

225 mV ORP Standard Solution



Nitrate Ion Standard Solutions



Sampling Sheet Holder



Sampling Sheet B

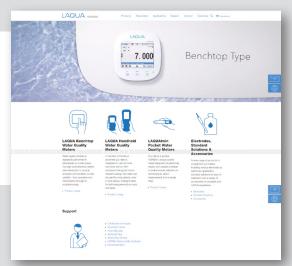


Water Quality Analyzers

www.horiba-laqua.com

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.



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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