

LAQUA



Agriculture



Aquaculture



Arts



Food &
Beverage



Health
Management



Livestock



Manufacturing



Water &
Wastewater

Waterproof Pocket Water Quality Meters



www.horiba-laqua.com





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

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Determination of Nutrient Concentrations in Soil Solution and Tomato Plant Sap

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 NO_3^- , 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 LAQUAtwin ion pocket meters are useful low-cost tools in fertigation management.

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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 with garlic press and place the sap onto the sensor of LAQUAtwin pH meter.

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Conductivity and Elephant's Foot Testing

Elephant's foot is a physiological disorder in sweet pepper (*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 be used to measure conductivity of soil and help farmers choose the best land to grow sweet pepper crops.

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

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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 nitrate-nitrogen (NO_3^- -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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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 $\text{EC}_{1:5}$ test is used to estimate soil salinity (EC_e). The soil salinity threshold value for almond is 1.5 mS/cm.

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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 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.

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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 ($r=0.981$, $r^2=0.962$) was obtained between ICP-OES and LAQUAtwin potassium ion meter.

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

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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.

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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 nitrate-nitrogen (NO₃-N) concentrations in onion vary at different growth stages. The acceptable root sap NO₃-N concentration range for 0.5 to 1.5-inch onion bulbs is 350 to 500 ppm.

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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.

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Quick Nutrient Analysis in Strawberry Production

Regular monitoring of nutrient levels such as nitrate (NO₃⁻), potassium (K⁺) and calcium (Ca²⁺) 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.

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

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Aquarium Water Testing

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

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

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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 of Clostridium botulinum, the most heat resistant of the food pathogen microorganisms.

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

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

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

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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.

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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 with DI water in 1:5 ratio, then place the resulting solution onto the LAQUAtwin sodium ion meter.

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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 protein-bound calcium in sample using acid before analysis.

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Measurement of Sodium in Athlete's Sweat

Determining the sodium concentration in sweat and 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 Science Institute, the sodium results obtained with HORIBA falls within 15.4 mEq/L 95% of the time.

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Nitrate Measurement in Hybrid Sudangrass and Pearl Millet Hays

Determining the nitrate 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 considered safe for all cattle are 820 ppm and 700 ppm for sudangrass sap and pearl millet sap, respectively.

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Residual Sodium Check During Clean-in-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 water rinse or swab can indicate whether residual chemical has been removed properly from the process equipment.

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

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

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

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Determination of Potassium in Sea Water

Seawater has high ionic strength. To eliminate matrix effect in measuring potassium (K⁺) concentration, standard solutions made with the same background as the seawater sample are recommended for calibration. The result of measurement using the LAQUAtwin Potassium Ion meter is within ±10% of typical seawater concentration.

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LAQUAtwin

Compact Water Quality Meter



Lab in your pocket

LAQUAtwin compact meters
are simple and easy-to-use.

8 Water Quality Parameters: pH, Conductivity, Total Dissolved Solids (TDS), Ions (Na^+ , K^+ , NO_3^- , Ca^{2+}) 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 11 colorful models.



Quick!

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

Variety!

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

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.

Reliable!

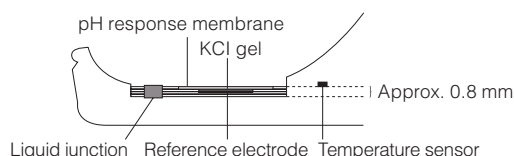
HORIBA 60 years sensor technology distilled in HORIBA's unique flat sensor.

Cost effective

1/100 of standard solution and sample volume is needed. Sensor is replaceable.

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.

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

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

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.



● Attach a strap or tag here.

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.

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





Immersion

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.





























pH			
Model	pH-11  	pH-22  	pH-33   
Features	   	   	   
Part No.	3999960122	3999960123	3999960124
Measurement Principle	Glass Electrode		
Minimum Sample Volume	0.1 ml (0.05 ml with Sampling Sheet B)		
pH Range / Resolution	0.0 to 14.0 pH / 0.1 pH	0.00 to 14.00 pH / 0.01 pH	
Accuracy	± 0.1 pH	± 0.01 pH	
Maximum pH Calibration Points	2	3	5
pH Calibration Curves	USA: 1.68, 4.01, 7.00, 10.01 & 12.46 NIST: 1.68, 4.01, 6.86, 9.18 & 12.46		
mV Range / Resolution	± 650 mV / 1 mV		
Temperature Display / Resolution	—		0 to 50.0 °C / 0.1 °C
Functions	Automatic Buffer Recognition • 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 °C / 85% or less in relative humidity (no condensation)		
Battery Life	Approx. 400 hrs. continuous use without backlight		
Material	ABS epoxy body / flat glass sensor		
Dimensions	164 x 29 x 20 mm(excluding projections)		
Mass	Approx. 55g (including sensor and batteries)		
Accessories included	pH 7.00 & 4.01 pH Buffers (14 ml each) CR2032 Batteries (2) • Dropper • Instruction & Quick Manuals • Storage Case		

*Applicable for models with temperature display



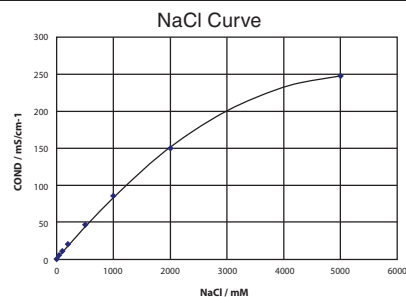
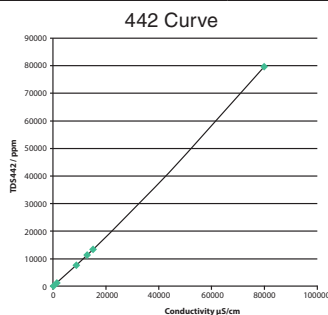
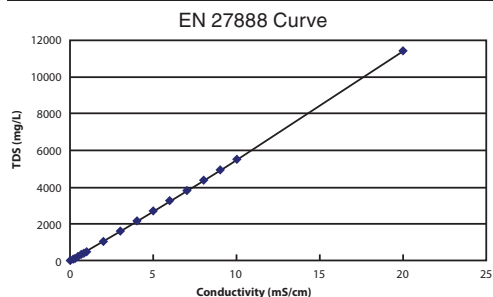


	Conductivity (EC)												Salt (NaCl)			
Model	EC-11 				EC-22  				EC-33   				Salt-11  			
Features																
Part No.	3999960125				3999960126				3999960127				3999960128			
Measurement Principle	2 Electrode Bipolar AC															
Minimum Sample Volume	0.12 ml															
Measurement Range / Resolution	Conductivity 0 to 199 $\mu\text{S/cm}$ (1 $\mu\text{S/cm}$) 200 to 1999 $\mu\text{S/cm}$ (1 $\mu\text{S/cm}$) 2.00 to 19.99 mS/cm (0.01 mS/cm)				Conductivity 0 to 199 $\mu\text{S/cm}$ (1 $\mu\text{S/cm}$) 200 to 1999 $\mu\text{S/cm}$ (1 $\mu\text{S/cm}$) 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)			
	—								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	$\pm 2\%$ full scale (for each range)				$\pm 2\%$ full scale (0 to 19.99 mS/cm) $\pm 5\%$ full scale (20.0 to 199.9 mS/cm)								$\pm 2\%$ full scale (0.0 to 9.9 g/L) $\pm 4\%$ full scale (10.0 to 100.0 g/L)			
Maximum Calibration Points	2				3								2			
Calibration Curves	1413 $\mu\text{S/cm}$, 12.88 mS/cm				1413 $\mu\text{S/cm}$, 12.88 mS/cm, 111.8 mS/cm								NaCl / Sea water			
	—								TDS Factor (0.4 to 1.0) / EN 27888 / 442 / NaCl							
Temperature Display / Resolution	—				0 to 50.0 $^{\circ}\text{C}$ (0.1 $^{\circ}\text{C}$)											
Functions	Automatic Range • Automatic Standard Recognition • Temperature Compensation (2%/ $^{\circ}\text{C}$ 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 $^{\circ}\text{C}$, 85% or less 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 $\mu\text{S/cm}$ & 12.88 mS/cm Conductivity Standard Solutions (14 ml each)												0.5% & 5.0% NaCl Standard Solutions (14 ml each)			
	Conditioning Solution (4 ml) • CR2032 Batteries (2) • 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_2SO_4 , NaHCO_3 , NaCl	442
Environmental	EN standard for environmental water	EN 27888
General application	KCl	TDS Factor Linear Default: 0.5 Selectable: 0.4 to 1.0

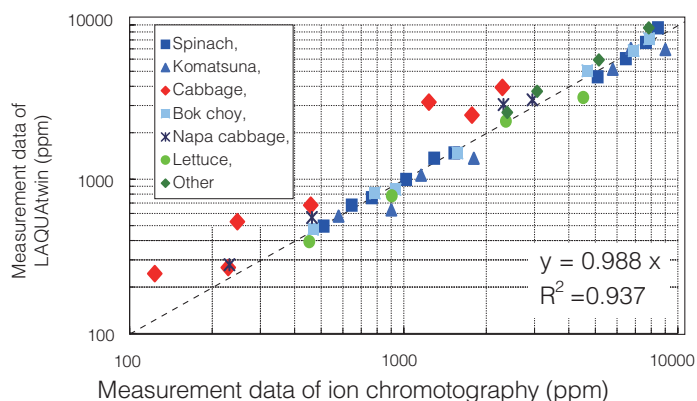




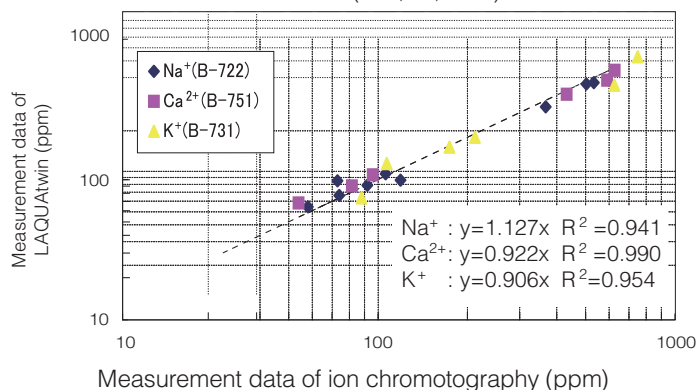
	Sodium Ion (Na ⁺)	Potassium Ion (K ⁺)	Nitrate Ion (NO ₃ ⁻)	Calcium Ion (Ca ²⁺)
Model	Na-11 Na ⁺ Temp	K-11 K ⁺ Temp	NO3-11 NO ₃ ⁻ Temp	Ca-11 Ca ²⁺ Temp
Features	WATER PROOF MICRO VOLUME 2 PT CAL	WATER PROOF MICRO VOLUME 2 PT CAL	WATER PROOF MICRO VOLUME 2 PT CAL	WATER PROOF MICRO VOLUME 2 PT CAL
Part No.	3200689159	3200689160	3200689162	3200689161
Measurement Principle	Ion Selective Electrode			
Minimum Sample Volume	0.3 ml (0.05 ml with Sampling Sheet B)			
Measurement Range	2 to 9900 ppm (mg/L) (0.1 to 430 mmol/L)	4 to 9900 ppm (mg/L) (0.1 to 250 mmol/L) 2 to 5000 kg/10a (soil/water ratio 1:5)	NO ₃ ⁻ : 6 to 9900 ppm (mg/L) (0.1 to 160 mmol/L) NO ₃ -N: 1.4 to 2200 ppm (mg/L)	4 to 9900 ppm (mg/L) (0.1 to 250 mmol/L)
Resolution	0 to 99 ppm: 1 ppm 100 to 990 ppm: 10 ppm 1000 to 9900 ppm: 100 ppm			
Accuracy	± 10% of actual value			± 20% of actual value
Maximum Calibration Points	2			
Temperature Display / Resolution	0 to 50.0 °C / 0.1 °C			
Functions	Automatic Standard Recognition • Changeable Low and High Calibration Values • Temperature Compensation • Temperature Calibration • Multiplication Compensation (0.01 to 9.90) • 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% or less in relative humidity (no condensation)			
Battery Life	Approx. 400 hrs. continuous use without backlight			
Material	ABS epoxy body / flat glass sensor			
Dimensions	164 x 29 x 20 mm(excluding projections)			
Mass	Approx. 55g (including sensor and batteries)			
Accessories included	150 & 2000 ppm Standard Solutions (14 ml each) • Sampling Sheet B (5pcs) CR2032 Batteries (2) • Dropper • Instruction & Quick Manuals • Storage Case			

Correlation between LAQUAtwin measurement data and ion chromatography

Crops (NO₃⁻)



Isotonic drink, mineral water drinks and mineral water (Na⁺, K⁺, Ca²⁺)



*When measuring Ca²⁺, samples are pretreated in order to match the conditions of the ion chromatography.

Solutions & Accessories

LAQUAtwin

LAQUAtwin Replacement Sensors

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)



LAQUAtwin Standard Solutions (6 x 14ml bottles per pack)

Part No.	Model	Description
3999960108	514-4	pH 4.01 Buffer
3999960109	514-7	pH 7.00 Buffer
3999960110	514-22	1413 μ S/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



LAQUAtwin Accessories

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



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.



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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