

Waterproof Pocket Water Quality Meters



HORIBA

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 Scan QR Code for link 1.0-2.6 mS/ and respectively. cm. The ideal pH range is 5.4-6.2 for both methods.

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 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 useful 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 meter.



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 be

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 the 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 nitrate-

nitrogen (NO₃-N) for Scan QR Code for link specific crops varies from crop to crop

but in general, a concentration range of 10-50 mg/kg is

desired.



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 $EC_{1:5}$ test is used to estimate Scan QR Code for link

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

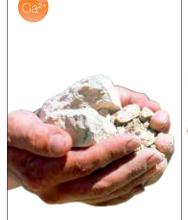


Impact of Soil Salinity on Sugar **Cane Yield**

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.



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 Scan QR Code for link

should be performed prior to placing filtrate the 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, correlation Scan QR Code for link good

(r=0.981, r2=0.962) obtained was between **ICP-OES** LAQUAtwin and potassium ion meter



Potassium Determination in Plant Tissue

of Comparison 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 appealing an

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



Scan QR Code for link



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 Scan QR Code for link

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 (NO_3-N) concentrations in onion vary at different growth stages. The Scan OB Code for link

acceptable root sap NO₂-N concentration range for 0.5 to 1.5inch 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 Connecticut Scan QR Code for link of

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 (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 identify to and correct any nutrient deficiency or excess immediately.



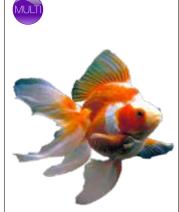
Scan QR Code for link

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 removing Scan QR Code for link ٥r dirt.

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





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 Scan QR Code for link

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





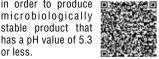
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pH Measurement in the Acidification of Fermented Sausages

Lowering pH or increasing acidity of meat has become main hurdle against pathogenic bacteria in sausage making. pr is used in the course of _{Scan QR Code for link} fermentation process

in order to produce microbiologically stable product that

or less.



For brine of canned acid foods, the equilibrium pH value must be 4.6 or below to Scan QR Code for link inhibit the growth Clostridium of botulinum, the most

heat resistant of

the food pathogen

microorganisms.

Canned Food Testing

pH of Brine for





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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 Scan QR Code for link

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





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 pН 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.



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 Scan OB Code for link 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 sodium ion meter.





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 Scan QR Code for link

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 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 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 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 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

Scan OB Code for link

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 Scan QR Code for link

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.



typical

concentration.

Determination of Potassium in Sea Water

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 the Potassium Ion meter is within $\pm 10\%$ of

seawater

LAQUAtion 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⁺, NO₃⁻, Ca²⁺) 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.

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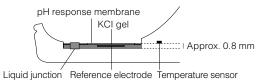
IP67 rated dust, waterproof. Carr

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

r from a single drop of

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

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.

Carrying case comes with calibration solutions and accessories

Solution!

Discover more

with easy, on-site

measurement.

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.

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.



Easy measurement for all users

LAQUAtwin



powders, and sheet-like samples. Above pictures are for illustration purposes only.

	Atwin	0	LAQUANIA TITLE OF		
Model	pH-11 🖭 🔍	^{рн} рН-22 р⊣ т∨	рН-33 🖻 耐 🎰		
Features	WATER MICRO 2 PT 0.1 pH	WATER MICRO 3 PT CAL 0.01 PH	WATER MICRO 5 PT 0.01 pH		
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	± 0.0)1 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	1		
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	Арр	prox. 400 hrs. continuous use without back	light		
Material		ABS epoxy body / flat glass sensor	ANNO AN		
Dimensions		164 x 29 x 20 mm(excluding projections)			
Mass	A	pprox. 55g (including sensor and batterie	s)		
Accessories included	pH 7.00 & 4.01 pH Buffers (14 ml each) CR2032 Batteries (2) • Dropper • Instruction & Quick Manuals • Storage Case				

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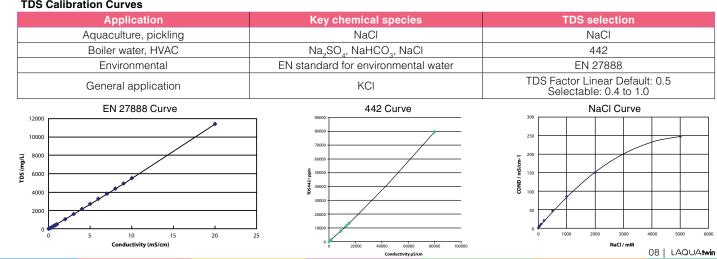
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COND PH I		Contect = 500
	(1)	

		Salt (NaCl)				
Model	EC-11 👓	EC-22 😳 🌆	EC-33 💿 💿 酠	Salt-11 Salt		
Features	WATER MICRO VOLUME 2 PT CAL mS/com	WATER MICRO 3 PT CAL -199.9 WOLUME CAL -199.9	WATER MICRO 3 PT CAL ~199.9 mS/com	WATER MICRO 2 PT EC CONV		
Part No.	3999960125	3999960126	3999960127	3999960128		
Measurement Principle		2 Electrod	e Bipolar AC			
Minimum Sample Volume	0.12 ml					
Measurement Range / Resolution	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)	Cond 0 to 199 µS/ 200 to 1999 µ 2.00 to 19.99 mS 20.0 to 199.9 mS	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		± 2% full scale (for each range)		± 10% of actual value		
Maximum Calibration Points	2	3		2		
Calibration	1413 µS/cm, 12.88 mS/cm	1413 μS/cm, 12.88 ι				
Curves	-	_	NaCI / 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 $^{\circ}$ 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 (includin	g sensor and batteries)			
Accessories included	0.5% & 5.0% Na(
included	Conditioning Soluti	uals • Storage Case				
*Applicable for models with temperature display						

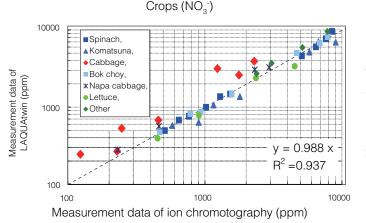


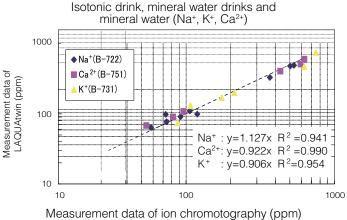
*Applicable for models with temperature display





	Sodium Ion (Na⁺)	Potassium Ion (K⁺)	Nitrate Ion (NO₃⁻)	Calcium Ion (Ca ²⁺)	
Model	Na-11 Nat Temp	K-11 💽 🎰	NO3-11 💽 酠	Ca-11 📴 陋	
Features	WATER MICRO 2 PT PROOF VOLUME CAL	WATER MICRO PROOF VOLUME 2 PT CAL	WATER MICRO PROOF VOLUME 2 PT CAL	WATER MICRO 2 PT PROOF VOLUME CAL	
Part No.	3200689159	3200689160	3200689162	3200689161	
Measurement Principle		Ion Selectiv	ve Electrode		
Minimum Sample Volume		0.3 ml (0.05 ml with	a 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		± 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 betwee	n LAQUAtwin measuremer	t data and ion chromatogra	iphy	
	Crops (NO ₂ ⁻)		Isotonic drink, mineral v	vater drinks and	





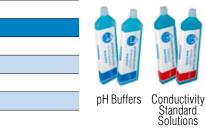
*When measuring Ca²⁺, samples are pretreated in order to match the conditions of the ion chromatography.

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)	













Sodium Ion Standard Solutions

Potassium lon Standard Solutions

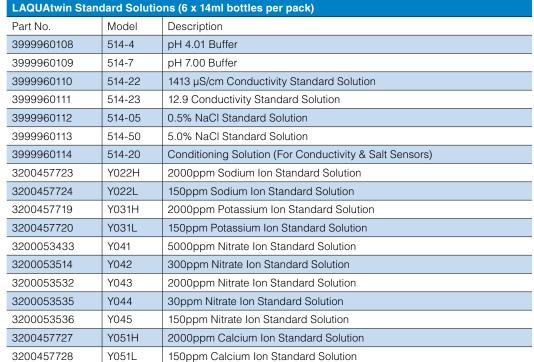
Calcium Ion Standard Solutions



Nitrate Ion Standard Solutions



Sampling Sheet B



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



Visit HORIBA's website!

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.





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.

HORIBA

SUPPORT HORIBA CUSTOMER SUPPORT SYSTEM

HORIBA offers a variety of services to help you conform to quality standards and international guidelines such as GLP, GMP and ISO.

Technical Support User Support			Validation Support			
Please contact us with any technical questions about our products.	Our support website is a registered customers ar Data collection sof Instruction manual Measurement tips, www.horiba.co.jp/regist	nd features: itware downloads etc.	Please contact us with requirements for your Traceability certif IQ/OQ/PQ suppo SOP guidance FAQ	validation procedure. Tication*		
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e-mail: laqua@horiba			Brochure PBT-02-2017A			

Automotive Test Systems | Process & Environmental | Medical | Semiconductor | Scientific