LAQUAtwin

COMPACT WATER QUALITY METER

HORIBA
Explore the future

MADE IN JAPAN
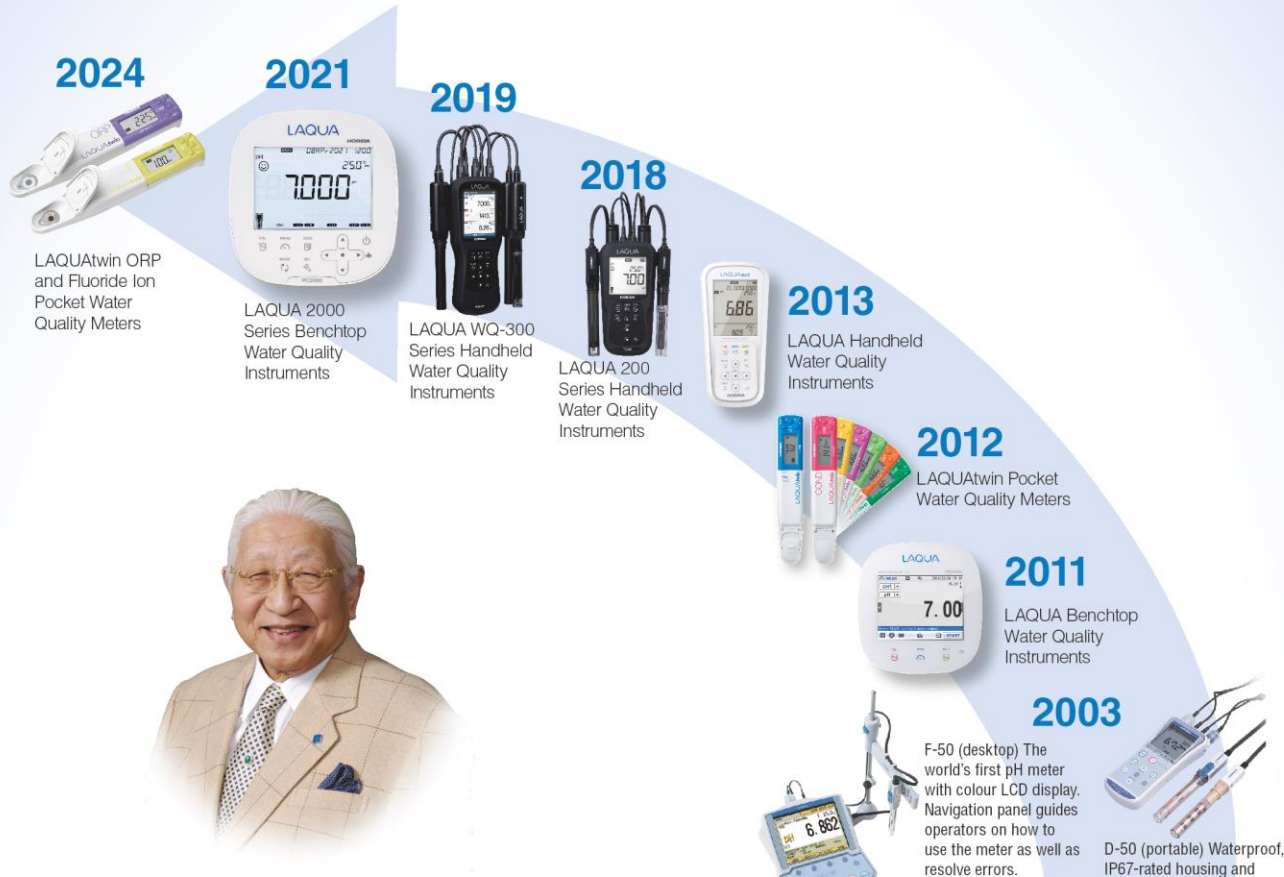
HORIBA
Scientific

LAQUA

2024
LAQUAtwin ORP and Fluoride Ion Pocket Water Quality Meters

2021
LAQUA 2000 Series Benchtop Water Quality Instruments

2019
LAQUA WQ-300 Series Handheld Water Quality Instruments

2018
LAQUA 200 Series Handheld Water Quality Instruments

2013
LAQUA Handheld Water Quality Instruments

2012
LAQUAtwin Pocket Water Quality Meters

2011
LAQUA Benchtop Water Quality Instruments

2003
F-50 (desktop) The world's first pH meter with colour LCD display. Navigation panel guides operators on how to use the meter as well as resolve errors.

D-50 (portable) Waterproof, IP67-rated housing and multi-parameter.

1993
F-20 (benchtop) The world's first wireless pH meter. Large graphical display gives user instructions on screen.

1990
B-111 (Pen type) The pen type sensor allows small samples to be tested.

1987
C-1 (card) Development of the world's first flat sensor.

1980
Model F-80 (benchtop) The world's first instrument capable of measuring pH at 0.001 resolution includes an integral computer with automatic calibration and a self-diagnostic function.

L-7 (integrated) Introduction of a small, handheld pH meter with integrated electrode.

1977
Model F-7AD (benchtop) Incorporating an industry-first LCD display, the combination of a glass electrode, a reference electrode and a temperature-compensating electrode, makes testing easier.

History of the HORIBA pH Meter

The humble beginning of HORIBA...

In 1950, Dr. Masao Horiba pioneered and launched Asia's first pH meter in Kyoto, Japan. Since then, HORIBA has been introducing several of the world's firsts such as the first 0.001 resolution pH meter, the first flat sensor featured in the Cardy, the first wireless pH meter, the first colour LCD display, etc.

1950
HORIBA introduces Japan's first glass electrode pH meter.

1964
M-5 (benchtop) conversion from vacuum tube to semiconductor allows miniaturization and development of fast response meter

LAQUAtwin
COMPACT WATER QUALITY METER

Testing made effortless! Drawing from 60 years of HORIBA expertise, LAQUAtwin meters integrate advanced technology for top-notch performance, tailored for both laboratory and field settings. Remarkably user-friendly, they require no specialized training! The only pocket meter that directly measures in 0.1ml sample (or 0.05ml sample with sampling sheet B). Calibrate and conduct measurements with a single touch — the user-friendly smiley face indicator signals when results are ready for interpretation. Simplify your workflow with trouble-free automatic calibration, requiring just a few drops of standard solution for heightened measurement accuracy. The option for a two-point calibration adds versatility for precise measurements in both laboratory and field environments.

Unique measurement options with LAQUAtwin

Immersion
Scoop
Drops
Wipe
Solid samples
Paper, textiles and films
Powders

• **Immersion:** Ideal for lab settings, simply test your sample in a beaker with the sensor guard sliding cap open.

• **Drops:** Utilize a dropper for precise measurements, with volumes as small as 0.1 mL easily measurable.

• **Solid Samples:** Test moist food samples by placing a small piece directly onto the sensor.

• **Powders:** Dry powders pose no challenge; just place them onto the sensor and add an appropriate amount of pure water.

• **Scoop:** Take water samples from rivers with ease using the unique vertical scoop.

• **Wipe:** Trace volumes are no obstacle; wipe off surfaces like skin with a sampling sheet soaked in pure water for analysis.

• **Paper, Textiles, and Films:** Even materials like paper and textiles can be tested by cutting them into small pieces and placing them directly onto the sensor then add a define amount of pure water.

Model	Calibration Points	Measurement Range/ Resolution	Accuracy	Temperature Display/ Resolution	Product Code	List Price
pH-11	2	0.0 to 14.00 pH / 0.1 pH	±0.1 pH	N/A	3999960122	**$175.00 + GST**
pH-22	3	0.0 to 14.00 pH / 0.01 pH	±0.01 pH	N/A	3999960123	**$215.00 + GST**
pH-33	5	0.0 to 14.00 pH / 0.01 pH	±0.01 pH	0 to 50.0˚C / 0.1 ˚C	3999960124	**$260.00 + GST**

Model	Calibration Points	Measurement Range/ Resolution	Accuracy	Temperature Display/ Resolution	Product Code	List Price
EC-11	2	Conductivity : 0 to 19.9mS/cm	±2% full scale (for each range)	N/A	3999960125	**$175.00 + GST**
EC-22	3	Conductivity : 0 to 199mS/cm	±2% full scale (for each range)	N/A	3999960126	**$215.00 + GST**
EC-33	3	Conductivity : 0 to 199mS/cm TDS : 0 to 9900ppm	±2% full scale (for each range)	0 to 50.0˚C / 0.1 ˚C	3999960127	**$260.00 + GST**

Model	Calibration Points	Salinity Range/ Resolution	Accuracy	Temperature Display/ Resolution	Product Code	List Price
Salt-11	2	0.0 to 100.0 g/L (ppt): 0.1 g/L 0.00 to 10.00%: 0.01%	±2% full scale (0.0 to 9.9 g/L) ± 4% full scale (10.0 to 100.0 g/L)	0 to 50.0˚C	3999960128	**$215.00 + GST**

Model	Calibration Points	Measurement Range/ Resolution	Accuracy	Temperature Display/ Resolution	Product Code	List Price
Na-11 Sodium	2	①0 to 99ppm : 1ppm ②100 to 990ppm : 10ppm ③1000 to 9900ppm : 100ppm	± 10% of actual value	0 to 50.0˚C	3200689159	**$595.00 + GST**

Model	Calibration Points	Measurement Range/ Resolution	Accuracy	Temperature Display/ Resolution	Product Code	List Price
K-11 Potassium	2	①0 to 99ppm : 1ppm ②100 to 990ppm : 10ppm ③1000 to 9900ppm : 100ppm	± 10% of actual value	0 to 50.0˚C	3200689160	**$595.00 + GST**

*All prices are subject to change without notice

Agriculture   Aquaculture   Arts   Food & Beverage   Health Management   Livestock   Manufacturing   Water & Wastewater

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Model	Calibration Points	Measurement Range/ Resolution	Accuracy	Temperature Display/ Resolution	Product Code	List Price
NO3-11 Nitrate	2	①0 to 99ppm : 1ppm ②100 to 990ppm : 10ppm ③1000 to 9900ppm : 100ppm	± 10% of actual value	0 to 50.0˚C	3200689162	**$595.00 + GST**

Model	Calibration Points	Measurement Range/ Resolution	Accuracy	Temperature Display/ Resolution	Product Code	List Price
Ca-11 Calcium	2	①0 to 99ppm : 1ppm ②100 to 990ppm : 10ppm ③1000 to 9900ppm : 100ppm	± 10% of actual value	0 to 50.0˚C	3200689161	**$695.00 + GST**

Model	Calibration Points	Measurement Range/ Resolution	Accuracy	Temperature Display/ Resolution	Product Code	List Price
Ca-11C Calcium	2	0.1〜5.0 mmol/L 0.1 mmol/L	± 20% of actual value	5 to 40.0˚C	3200772940	**$1,650.00 + GST**

Model	Calibration Points	Measurement Range/ Resolution	Accuracy	Temperature Display/ Resolution	Product Code	List Price
ORP-11	1	-1000 to 1000 mV / 1 mV	± 2 mV	0 to 50.0˚C	3200965260	**$370.00 + GST**

Model	Calibration Points	Measurement Range/ Resolution	Accuracy	Temperature Display/ Resolution	Product Code	List Price
F-11 Fluoride	2	0.1 to 9.9 ppm: 0.1 ppm 10 to 99 ppm: 1 ppm 100 to 990 ppm: 10 ppm	± 2% of actual value	0 to 50.0˚C	3200934412	**$695.00 + GST**

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Easy measurement for all users   LAQUAtwin

Sensor
IP67 rated waterproof/dustproof.
Sensor is easily replaceable.

Measurement button
Press to view mV or temperature (Auto Stable mode)
or to lock / unlock reading (Auto Hold mode).
In Set-up mode, press to scroll or adjust settings.

Strap hole
You can attach a
strap or tag here.

Meter
IP67 rated
waterproof/
dustproof.

Power button
Press to switch on or
off the meter or exit
set-up mode.

Calibration button
Press to perform
calibration or save
settings in set-up mode.

Sensor guard
Protects sensor from damage
and light. Sliding cap—for
scooping water samples. Open
the whole sensor guard when
placing water or solid samples
directly onto the sensor.

Open
Close

Slide cap

Backlight
For easy viewing in the
dark. Flashes when
battery is low.

Battery Indicator
Appears when
battery is low

Calibration mark
Calibration is
complete when it
stops flashing.

Measurement mark
Measurement is
complete when it
stops flashing.

Measurement value
Flashes when the
measurement value
is out of the range.

Stability mark
Lights up when
measurement
is complete.

Temperature alarm
Flashes when the
temperature is out
of range.

**Voltage
measurement mode**
Displays sensor voltage.

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SOLUTIONS & ACCESSORIES

LAQUAtwin Replacement Sensors

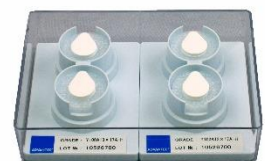| Product Code	Model	Description	List Price
3200459834	S010	pH Sensor (for B-711, B-712, B-713, pH-11, pH-22 & pH-33)	$110.00 + GST
3200459866	S021	Salt Sensor (for B-721)	$175.00 + GST
3200459867	S022	Sodium Ion Sensor (for B-722 & Na-11)	$175.00 + GST
3200459868	S030	Potassium Ion Sensor (for B-731 & K-11)	$175.00 + GST
3200459870	S040	Nitrate Ion Sensor (for B-741, B-742, B-743, NO3-11, NO3-11C & NO3-11S)	$175.00 + GST
3200459869	S050	Calcium Ion Sensor (for B-751 & Ca-11)	$175.00 + GST
3200459672	S070	Conductivity Sensor (for B-771, EC-11, EC-22, & EC-33)	$110.00 + GST
3200597237	S071	Salt EC Sensor (for Salt-11)	$110.00 + GST
3200934450	S060-F	Fluoride Ion Sensor (for F-11)	$175.00 + GST
3200997083	S080-ORP	ORP Sensor (for ORP-11)	$110.00 + GST

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

Product Code	Model	Description	List Price
3999960108	514-4	pH 4.01 Buffer	$70.00 + GST
3999960109	514-7	pH 7.00 Buffer	$70.00 + GST
3999960110	514-22	1413 µS/cm Conductivity Standard Solution	$70.00 + GST
3999960111	514-23	12.9 mS/cm Conductivity Standard Solution	$70.00 + GST
3999960112	514-05	0.5% NaCl Standard Solution	$70.00 + GST
3999960113	514-50	5.0% NaCl Standard Solution	$70.00 + GST
3999960114	514-20	Conditioning Solution (For Conductivity & Salt Sensors)	$70.00 + GST
3200457723	Y022H	2000ppm Sodium Ion Standard Solution	$85.00 + GST
3200457724	Y022L	150ppm Sodium Ion Standard Solution	$85.00 + GST
3200457719	Y031H	2000ppm Potassium Ion Standard Solution	$85.00 + GST
3200457720	Y031L	150ppm Potassium Ion Standard Solution	$85.00 + GST
3200053433	Y041	5000ppm Nitrate Ion Standard Solution	$85.00 + GST
3200053514	Y042	300ppm Nitrate Ion Standard Solution	$85.00 + GST
3200053532	Y043	2000ppm Nitrate Ion Standard Solution	$85.00 + GST
3200053535	Y044	30ppm Nitrate Ion Standard Solution	$85.00 + GST
3200053536	Y045	150ppm Nitrate Ion Standard Solution	$85.00 + GST
3200457727	Y051H	2000ppm Calcium Ion Standard Solution	$85.00 + GST
3200457728	Y051L	150ppm Calcium Ion Standard Solution	$85.00 + GST

LAQUAtwin Accessories

Product Code	Model	Description	List Price
3200053858	Y046	Sampling Sheet B (100pcs) for minute samples (≥0.05ml)	$175.00 + GST
3200459736	Y048	Sampling Sheet Holders (use with sampling sheet B for samples with particulates)	$85.00 + GST

*All prices are subject to change without notice

pH   COND   Salt   TDS   Na⁺   K⁺   NO₃⁻   Ca²⁺   iCa²⁺   ORP   F⁻   Temp

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