



pH ORP Ion Conductivity
Resistivity Total Dissolved Solids Salinity

Benchtop Water Quality Instruments
Colour Touchscreen Meters





www.horiba-laqua.com



Benchtop Water Quality Instruments

Colour Touchscreen Meters



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, IP67rated housing and multi-parameter.

2011



LAQUA Benchtop Water Quality Instruments



LAQUAtwin Pocket Water Quality Meters



LAQUA Handheld Water Quality Instruments

HORIEA

HORIBA



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.

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.



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.



1964

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



1950

HORIBA introduces Japan's first glass electrode pH meter.



- Large touch screen color graphic LCD—5.7 inches (115.2 x 86.4 mm)
- Chemical-resistant, 2mm thick super white glass panel with protection cover
- Easy to clean and elegant round body
- GLP / GMP compliant
- Switchable display—digital, graph, and analog

- Effortless single-touch operations—tap, flick, and drag
- 2-Channel display and simultaneous measurements for F-73 and F-74 models
- Small footprint—170 (W) x 174 (D) x 73 (H) mm
- Data acquisition software in mini USB is included
- 21 CFR Part 11 software complies with U.S. FDA's system requirements for electronic records and signatures (optional)



Protection Cover



Data Acquisition Software



21 CFR Part 11 Software



Intuitive Touch-Control Operation



6 types of international standard plugs included (US, UK, EU, Australia / New Zealand, Korea and China)

Meter Connections

Data Management

Data Key



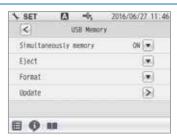
 Data key shows settings that allow users to search, view, delete, and copy data from meter to USB flash drive

Sample ID



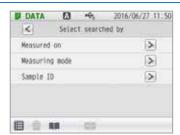
 Meter internal memory stores up to 2000 data with sample ID for easy reference

Data Storage



- Data can be stored simultaneously on both meter and USB flash drive (if inserted)
- Calibration and measurement data are logged automatically at set time interval

Data Search

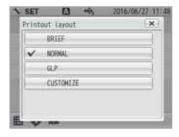


Data search by date, parameter, or sample ID



- Data output via USB to PC / USB flash drive or via RS232C to PC / printer (cables sold separately)
- Analog output adjustment—voltage output can be acquired from digital multimeter or recorder connected to the analog output connector

Custom Printout



- Auto or manual printing of calibration and measurement values for record keeping
- Printout contents can be customized based on user preference or GMP/GLP requirements—date and time, operator, electrode and meter information, electrode status, and calibration data

Meter Security



- Password setting for security
- Up to 25 administrators or operators can be registered



Calibration Support Function

Enjoy hassle-free calibration with on screen support. The meter will walk you through the steps of calibration.

- Auto Buffer Recognition
- Auto Calibration Function







Reading Stability Check

- Perform proper calibration with stable readings
- Determine the stability of reading at a glance in either digital or graph display during pH and ion calibration
- Stability value is a deviation between the maximum and minimum readings in the last 10 seconds





Electrode Status

- Electrode condition and results such as calibrated values, offset, acid and alkaline slopes, are shown at the end of calibration
- Programmable calibration reminder and alarm for measured values exceeding set limits
- Temperature indicator appears when a temperature probe or electrode with integrated temperature sensor is connected to the meter.
- Temperature sensor calibration function
- Electrode model, either selected from preset list or entered manually, and lot or MFG no. (entered manually) are included in stored data and printouts

Inspection Function

Easy navigation for meter and electrode inspections using a simulator. Various industrial standards (JIS, USP, EP, JP, CP) are also supported.

Convenient for IQ / OQ / PQ validation





NAVIGATION

Troubleshooting Function

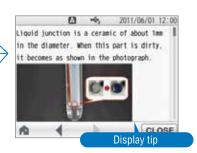
On-screen support for resolving a problem that occurs during calibration or sample measurements. A user's guide is incorporated in the software to assist with any operational difficulties.



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HCP

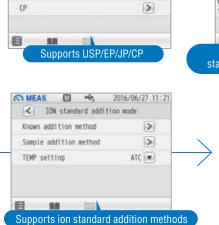
EP.



Application Functions

Various industry standard methods are supported by the instrument. Conductivity measurement for several pharmaceutical pure water guidelines and ion standard addition methods are incorporated in the meter.





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COND pharmacopoe'a mode



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рН

- 5 pH buffer groups
 - ∘ USA (1.68, 4.01, 7.00, 10.01, 12.45)
 - o NIST (1.68, 4.01, 6.86, 9.18, 12.45)
 - o NIST2 (1.68, 4.01, 6.86, 10.01, 12.45)
 - o China (1.68, 4.01, 6.86, 9.18, 12.46)
 - Custom (any pH buffers)

Resolution 0.001 sm | | |

Resolution 0.001 sm | | |

IDMP setting 0.01 pm |

IDMP conversion Auto.

Alarm, lower limit 0FF | |

Electrode model Customize | |



- Up to 5 calibration points
- 0.01 and 0.001 pH Resolutions
- Auto setting allows the meter to toggle between 0.01 and 0.001 resolution depending on the stability of the reading
- Auto calibration / Auto buffer recognition

mV

Display absolute potential and relative potential





ADVANCED

ORP

Capable of 1-point calibration



Ion

- Make your own calibration curve with maximum of 5 points or perform standard addition techniques
- Programmed with standard addition methods—known addition and sample addition (single and double are available for both methods)
- Measurement units μg/L, mg/L, g/L, mmol/L, mol/L

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Conductivity

- Automatic / manual calibration up to 4 points
- Adjustable temperature coefficient and reference temperature for temperature compensated readings
- Selectable cell constants 0.1, 1.0, 10.0
- Auto ranging S/cm and S/m units, fix mS/cm unit
- Support conductivity standard methods for pharmaceutical water—USP, EP, JP and CP

Total Dissolved Solids (TDS)

- Programmed with 4 predetermined TDS curves for accurate measurement—Linear, EN27888, 442, and NaCl
- Select the TDS curve suitable for your application
- Calibration only in conductivity mode is required



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USP			>
EP			(>)
JP			(>)
CP			>

TDS Calibration Curves

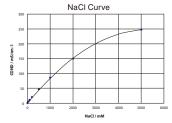
Application	Key chemical species	TDS selection		
Aquaculture, pickling	NaCl	NaCl		
Boiler water, HVAC	Na ₂ SO ₄ , NaHCO ₃ , NaCl	442 (Myron)		
Environmental	EN standard for environmental water	EN 27888		
General application	Not known	KCI (linear factor) Default: 0.5 Selectable: 0.4 to 1.0		

Salinity

- Programmed with 2 predetermined salinity curves—NaCl and seawater
- Salinity value is calculated based on measured conductivity value
- 1-point calibration using standard solution
- Measurement units—percentage (%) and parts per thousand (ppt)







Auto Stable / Auto Hold

- In measurement mode, the meter displays live readings continuously
- Activate auto hold by tapping START
- Auto hold settings—Exact, Normal, Brief, Time, Customize, and Manual





FEATURES

Auto Log Data

 Log data automatically by setting time interval from 1 to 999 seconds





Multi-Language

 Choose a language that you are familiar with—English, Japanese, Chinese, Korean, and Vietnamese



Screen Settings

- Set stylish theme on your meter screen—Standard, Cool, Monotone, and Kyoto
- Power saving mode—turns off the backlight to save power

Sound Setting

 Play a click sound every time you tap a key











Features:

- Up to 5 calibration points for pH and lon
- 5 pH buffer groups USA, NIST, NIST2, China, and Custom
- 0.01 and 0.001 pH resolutions
- pH calibration interval setting 1 to 999 days
- 1-point ORP calibration
- Ion calibration curve and standard addition methods
- Temperature sensor calibration function
- Single channel for F-72 and dual channel display for F-73

Ordering Information:		
Meter Kit*	F-72A-S (3999960011) F-72 meter electrode stand protection cover power adaptor with 6 plugs data acquisition software in USB 9615S-10D - refillable, glass-body pH electrode with integrated temperature sensor, 1m cable, BNC & phono jack 502-S - pH 4.01, 7.00, 10.01, 3.33M KCl solutions (250ml each)	F-73A-S (3999960012) F-73 meter electrode stand protection cover power adaptor with 6 plugs data acquisition software in USB 9615S-10D - refillable, glass-body pH electrode with integrated temperature sensor, 1m cable, BNC & phono jack 502-S - pH 4.01, 7.00, 10.01, 3.33M KCl solutions (250ml each)
Meter Kit with 21 CFR Part 11 Software	F-72A-S-CFR (3999960210)	F-73A-S-CFR (3999960212)
Meter with Electrode Stand	F-72G (3000347100) F-72 meter electrode stand protection cover	F-73G (3000347200) • F-73 meter • electrode stand
	 protection cover power adaptor with 6 plugs data acquisition software in USB 	protection coverpower adaptor with 6 plugsdata acquisition software in USB
pH Electrode	power adaptor with 6 plugs	 power adaptor with 6 plugs data acquisition software in USB 9615S-10D (3200585428) refillable, glass-body pH electrode with integrated
pH Electrode USA pH Buffer Set	 power adaptor with 6 plugs data acquisition software in USB 9615S-10D (3200585428) refillable, glass-body pH electrode with integrated 	 power adaptor with 6 plugs data acquisition software in USB 9615S-10D (3200585428) refillable, glass-body pH electrode with integrated
	 power adaptor with 6 plugs data acquisition software in USB 9615S-10D (3200585428) refillable, glass-body pH electrode with integrated temperature sensor, 1m cable, BNC & phono jack 502-S (3999960016) pH 4.01, 7.00, 10.01, 3.33M KCl solutions 	 power adaptor with 6 plugs data acquisition software in USB 9615S-10D (3200585428) refillable, glass-body pH electrode with integrated temperature sensor, 1m cable, BNC & phono jack 502-S (3999960016) pH 4.01, 7.00, 10.01, 3.33M KCl solutions

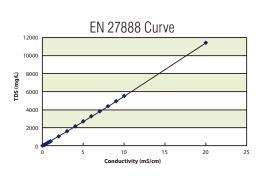
Model F-72 pH/ORP/lon/Temp (°C)		F-73 Dual Channel pH/ORP/Ion/Temp (°C)				
pH Range	-2.000 to 20.000 pH	-2.000 to 20.000 pH				
Resolution	0.01 / 0.001 pH	0.01 / 0.001 pH				
Accuracy	± 0.001 pH	± 0.001 pH				
Calibration Points	Up to 5	Up to 5				
Buffer Options	USA, NIST, NIST2, China, Custom	USA, NIST, NIST2, China, Custom				
ORP Range	± 1999.9 mV	± 1999.9 mV				
Resolution	0.1 mV	0.1 mV				
Accuracy	±0.2 mV	±0.2 mV				
Ion Range	0.000 μg/L to 9999 g/L (mol/L)	0.000 μg/L to 9999 g/L (mol/L)				
Resolution	4 significant digits	4 significant digits				
Accuracy	± 0.3% of full scale	± 0.3% of full scale				
Calibration Points	Up to 5	Up to 5				
Temperature Range	-30.0 °C to 130.0 °C	-30.0 °C to 130.0 °C				
Resolution	0.1 °C	0.1 °C				
Accuracy	±0.4°C	±0.4°C				
Calibration Option	Yes	Yes				
Navigation Function	Yes	Yes				
Memory	2000	2000				
Auto Data-Logging	Yes	Yes				
Data Search	Yes	Yes				
Custom Printing	Yes	Yes				
Real Time Clock	Yes	Yes				
Date / Time Stamp	Yes	Yes				
Sample ID Input	Yes	Yes				
Operator ID Input	Yes	Yes				
Password Setting	Yes	Yes				
Auto Stable / Auto Hold	Yes	Yes				
Offset / Slope Display	Yes (independent acid and alkaline slopes depending on calibration)	Yes (independent acid and alkaline slopes depending on calibration)				
Calibration Alarm Limit	Yes	Yes				
Electrode Status	On screen display	On screen display				
Diagnostic Messages	Yes	Yes				
Display	Touch screen color graphic LCD	Touch screen color graphic LCD				
Languages	English / Japanese / Chinese / Korean / Vietnamese	English / Japanese / Chinese / Korean / Vietnamese				
Inputs	BNC, phono, DC socket	Dual BNC, dual phono, DC socket				
Outputs	USB, RS232C, analog output	USB, RS232C, analog output				
Power Requirements	AC adaptor 100 ~ 240V, 50/60 Hz	AC adaptor 100 ~ 240V, 50/60 Hz				
Electrode Stand	Stand alone	Stand alone				
Weight	700g	700g				
Dimensions	170 (W) x 174 (D) x 73 (H) mm	170 (W) x 174 (D) x 73 (H) mm				

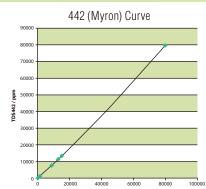


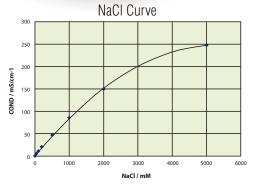
Features:

- Wide conductivity range
- Automatic / manual conductivity calibration
- Up to 4 calibration points
- Adjustable temperature coefficient, reference temperature, and cell constant
- Temperature sensor calibration function
- Auto ranging S/cm and S/m and fix mS/cm conductivity units
- Parts per thousand (ppt) and percentage (%) salinity units
- NaCl and seawater salinity curves
- 4 Total dissolved solids (TDS) curves EN27888, Linear, NaCl, 442









Ordering Information: DS-72A-S (3999960013) Meter Kit DS-72 meter electrode stand protection cover power adaptor with 6 plugs data acquisition software in USB 3552-10D - Platinum/Platinum black, glass-body k=1.0 conductivity cell with integrated temperature sensor, 1m cable, BNC & phono jack 503-S - 84µS/cm, 1413µS/cm, 12.88mS/cm & 111.8mS/cm conductivity standard solutions (250ml each) Meter Kit with **DS-72A-S-CFR** (3999960216) 21 CFR Part 11 Software **DS-72G** (3000347600)

Model	DS-72 EC/TDS/Res/Sal/Temp (°C)
	0.000 μS/cm to 19.99 mS/cm (k=0.1)
EC Range	0.00 μS/cm to 199.9 mS/cm (k=1.0)
	0.0 μS/cm to 1.999 S/cm (k=10.0)
Resolution	0.05% of full scale
Accuracy	$\pm 0.6\%$ of full scale ($\pm 1.5\%$ full scale > 18.0 mS/cm)
Reference Temperature	15 to 30°C (adjustable)
Temperature Coefficient	0.00 to 10.00% (adjustable)
Cell Constants	0.1 / 1.0 / 10.0
Calibration Points	4 (Auto / Manual)
Measurement Units	Auto-Ranging / Manual S/cm, S/m, Fix (mS/cm)
TDS Range	0.01 mg/L to 1000 g/L
Resolution	0.01 mg/L
Accuracy	±0.1% of full scale
TDS Curves	EN27888, Linear (0.40 to 1.0), 442, NaCl
	0.00 kΩ.cm to 199.9 MΩ•cm (k=0.1)
Resistivity Range	0.000 kΩ.cm to 19.99 MΩ∙cm (k=1.0)
	0.0 Ω.cm to 1.999 MΩ•cm (k=10.0)
Resolution	0.05% of full scale
Accuracy	±0.6% of full scale (±1.5% full scale > 1.80 MΩ•cm)
Salinity Range	0.00 to 80.00 ppt / 0.000 to 8.000%
Resolution	0.01 ppt / 0.001%
Accuracy	0.2% of full scale
Salinity Curves	NaCl / Seawater
Temperature Range	-30.0 °C to 130.0 °C
Resolution	0.1 °C
Accuracy	± 0.4 °C
Navigation Function	Yes
Memory	2000
Auto Data-Logging	Yes
Data Search	Yes
Custom Printing	Yes
Real Time Clock	Yes
Date / Time Stamp	Yes
Sample ID Input	Yes
Operator ID Input	Yes
Password Setting	Yes
Auto Stable / Auto Hold	Yes
Diagnostic Messages	Yes
Display	Touch screen color graphic LCD
Languages	English / Japanese / Chinese / Korean / Vietnamese
Inputs	BNC, phono, DC socket
Outputs	USB, RS232C, analog output
Power Requirements	AC adaptor 100~240V, 50/60 Hz
Electrode Stand	Stand alone
Weight	700g
Dimensions	170 (W) x 174 (D) x 73 (H) mm



Features:

- Combine the functions of F-72 and DS-72 models
- Dual channel and simultaneous measurements
 - Channel 1: pH, Ion, mV, ORP
 - Channel 2: Conductivity, Salinity, Resistivity and TDS
- Switchable single or dual channel display







*Kit with 501-S is available upon request. Add 'N' suffix to the order code when ordering.



Channel 2: Conductivity



Dual Channel

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Ordering Information:	
Meter Kit*	F-74A-S (3999960014) F-74 meter electrode stand protection cover power adaptor with 6 plugs data acquisition software in USB 9615S-10D - refillable, glass-body pH electrode with integrated temperature sensor, 1m cable, BNC & phono jack 3552-10D - Platinum/Platinum black, glass-body k=1.0 conductivity cell with integrated temperature sensor, 1m cable, BNC & phono jack 502-S - pH 4.01, 7.00, 10.01, 3.33M KCI solutions (250ml each)
Meter Kit with 21 CFR Part 11 Software	 503-S - 84μS/cm, 1413μS/cm, 12.88mS/cm & 111.8mS/cm conductivity standard solutions (250ml each) F-74A-S-CFR (3999960214)
Meter with Electrode Stand	F-74G (3000347400) F-74 meter electrode stand protection cover power adaptor with 6 plugs data acquisition software in USB
pH Electrode	 9615S-10D (3200585428) refillable, glass-body pH electrode with integrated temperature sensor, 1m cable, BNC & phono jack
Conductivity Cell	 3552-10D (3014081545) Platinum/Platinum black, glass-body k=1.0 conductivity cell with integrated temperature sensor, 1m cable, BNC & phono jack
USA pH Buffer Set	502-S (3999960016) • pH 4.01, 7.00, 10.01, 3.33M KCl solutions (250ml each)
NIST pH Buffer Set	501-S (3999960015) • pH 4.01, 6.86, 9.18, 3.33M KCl solutions (250ml each)
Conductivity Standard Solutions Set	503-S (3999960017) • 84μS/cm, 1413μS/cm, 12.88mS/cm & 111.8mS/cm conductivity standard solutions (250ml each)

	F 74					
Models	F-74 Dual Channel pH/ORP/lon/EC/TDS/Res/Sal/Temp (°C)					
pH Range	-2.000 to 20.000 pH					
Resolution	0.01 / 0.001 pH					
Accuracy	± 0.001 pH					
Calibration Points	Up to 5					
Buffer Options	USA, NIST, NIST2, China, Custom					
ORP Range	± 1999.9 mV					
Resolution	0.1 mV					
Accuracy	± 0.2 mV					
Ion Range	0.000 μg/L to 9999 g/L (mol/L)					
Resolution	4 significant digits					
Accuracy	± 0.3% of full scale					
Calibration Points	Up to 5					
	0.000μS/cm to 19.99mS/cm (k=0.1)					
EC Range	0.00 µS/cm to 199.9 mS/cm (k=1.0)					
	0.0 μS/cm to 1.999 S/cm (k=10.0)					
Resolution	0.05% of full scale					
Accuracy	$\pm 0.6\%$ of full scale ($\pm 1.5\%$ full scale > 18.0 mS/cm)					
Reference Temperature	15 to 30°C (adjustable)					
Temperature Coefficient	0.00 to 10.00% (adjustable)					
Cell Constants	0.1 / 1.0 / 10.0					
Calibration Points	4 (Auto / Manual)					
Measurement Units	Auto Ranging / Manual					
	S/cm, S/m, Fix (mS/cm)					
TDS Range	0.01 mg/L to 1000 g/L					
Resolution	0.01 mg/L					
Accuracy	±0.1% of full scale					
TDS Curves	EN27888, Linear (0.40 to 1.0), 442, NaCl					
	0.00 kΩ.cm to 199.9 MΩ•cm (k=0.1)					
Resistivity Range	0.000 kΩ.cm to 19.99 MΩ•cm (k=1.0)					
,	0.0 Ω.cm to 1.999 MΩ•cm (k=10.0)					
Resolution	0.05% of full scale					
Accuracy	±0.6% of full scale (±1.5% full scale > 1.80 MΩ•cm)					
Salinity Range	0.00 to 80.00 ppt / 0.000 to 8.000 %					
Resolution	0.01 ppt / 0.001%					
Accuracy	0.2% of full scale					
Salinity Curves	NaCl / Seawater					
Temperature Range	-30.0 °C to 130.0 °C					
Resolution	0.1 °C					
Accuracy	± 0.4 °C					
Navigation Function	Yes					
Memory	2000					
Auto Data-Logging	Yes					
Data Search	Yes					
Custom Printing	Yes					
Real Time Clock	Yes					
Date / Time Stamp	Yes					
Sample ID Input	Yes					
Operator ID Input	Yes					
Password Setting	Yes					
Auto Stable / Auto Hold	Yes					
Offset / Slope Display	Yes (independent acid and alkaline slopes depending on calibration)					
Calibration Alarm Limit	Yes					
Electrode Status	On screen display					
Diagnostic Messages	Yes					
Display	Touch screen color graphic LCD / dual channel display					
Languages	English / Japanese / Chinese / Korean / Vietnamese					
Inputs	Dual BNC, dual phono, DC socket					
Outputs	USB, RS232C, analog output					
Power Requirements	AC adaptor 100~240V, 50/60 Hz					
Electrode Stand	Stand alone					
Weight	700g 170 (W) v 174 (D) v 73 (H) mm					
Dimensions	170 (W) x 174 (D) x 73 (H) mm					

nU E	loctro	do					3-in-1	ELECTR	ODES						CON	IBINATIO	ON ELEC	TRODES
-	lectro			PLA	STIC		STANDARD	LONG ToupH	MICRO ToupH	SLEEVE ToupH	SLEEVE	NON- AQUEOUS	NEEDLE	PLASTIC	STANDARD ToupH	MICRO ToupH	SLEEVE	LONG
Selec	ction (Buide	9625-10D	9630-10D	9631-10D	9632-10D	ToupH 9615S-10D		9618S-10D	9681S-10D	6367-10D	6377-10D	6252-10D	9425-10C	9415-10C	9418-10C	ToupH 9481-10C	6069-10C
	Applicable te	mperature	0-100	0-100	0-60	0-100	0-100	0-100	0-60	0-60	0-60	0-60	0-60	0-100	0-100	0-60	0-60	0-60
Specification	range (°C) Diameter (mr	m)	16	16	16	16	12	8	3	12	12	12	12	16	12	3	12	3
	Length (mm)	,	150	150	155	150	198	283	185	203	150	150	150	150	198	185	203	291
pH - San	nple Con	ditions Normal (over 100	_		_						l _					_		
		mS/m)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Conductivity	Low (approx.10 ~100 mS/m		•						0		•					0	
	Conductivity	Very low (approx. 5~100 mS/m		0						0		•					0	
		High (approx. 5 S/m)	0	0	0	0	0	0		•				0	0		•	
Aqueous	Strong alkali	ne (pH 10-12)				•	0	0		0	0				0		0	
Solution	Strong acidit HF sample	y (pH 0-2) * Except			•		•								•			
		nange (within 50°C)	•	•	•	•								•				
	High viscosit	ty (approx. 5 Pa·S)								•	0	•					•	
	Containing n	on-aqueous					0	0	0	0	0	•			0	0	0	
	Suspension						0	0	0	•		•			0	0	•	
Solid/	Inside							_	_				0		_			
Semisolid	Surface																	
	Microtube/pl	late (> 50 μL)							•							•		
	Ampule	>ø4 mm							•							•		0
	Micro contai							0	•							•		0
Sample	Tube	ID:13 mm, L:100 ~ 150 mm						•										•
Containers	Beaker	10 mL ~ 1 L	•	•	•	•	•	0	0	0	0	0	0	•	•	0	0	0
	Large contain	ner (> 1 L)	0	0	0	0	0	•						0	0			
	Petri dish																	
	Droplet	1																
	Pure/ion-exc																	
	water (approx						0					•			0			
Water	Tap/drinking 10 mS/m)	water (approx.	0	•			0			0		•		0	0		0	
	Surface wate			•			0			0		•			0		0	
		l water/acid rain	0	0			0			0		0		0	0		0	
	Caustic/stroi HF sample)	ng acid (Except					•			0					•		0	
Chemical	Hydrofluoric	acid			•													
reagent/ solvent	Surfactant						0			•		0			0		•	
	Water-based Dye/coloring	<u>: </u>					0			•		0			0		O	
		aining sample					0		0	0	0				0	0	0	
	Medicinal pr	eparation							0	0		0				0	0	
Pharmaceutical/ biological		tion						0	•				0			•		
sample	Tris buffer						0		0	0					•	0	0	
	Suspension Agar medium						0			•		•			0		•	
	Jam						0			•		0	0		0		•	
	Meat/fish/Fr Dough	uit/vegetable/											•					
Food	Honey											•						
	Cheese/butte	er											0					
	Yogurt		0	0			0			0	0		0	0	0		0	
Beverage/	Beer Milk/Carbon	ated drink/juice/	0	0			0			•	0	•		0	0		•	
seasoning	sauce/soy sa	nuce					0			•	0	0			0		•	
	Mayonnaise/ Beauty crean						0			•		0	0		0		OO	
Cosmetic/	Gel/soap/sha	ampoo/Hair dye					0			•		0			0		0	
lotion	lotion Emulsified lie	quid					0			0		•			0		0	
	1																	

		ISFET ELECTRODE
LONG ToupH	FLAT	GENERAL
9480-10C	6261-10C	0040-10D
0-100	0-50	0-60
8	12	16
283	150	190

0 \bigcirc \bigcirc \bigcirc 0 0 0 \bigcirc \bigcirc \bigcirc 0 0 (surface) \bigcirc (surface) O(surface) \bigcirc O(surface) 0 (surface) Stable measurement for a wide range of samples. Standard ToupH glass electrode (9615S-10D)









High stability and drift reduction. No more worries about the timing of your measurement value readings.

- Uses responsive glass that is 10 times stronger than JIS standard. The domed shape provides strength in all directions, greatly reducing damage concerns.
- Constructed with smooth surfaces for easy wiping and cleaning.

Recommended

Perfect for preparing buffers. Can be used on a wide range of aqueous test solutions.

Stable measurement for routine testing. Standard plastic electrode (9625-10D)

STANDARD







The electrode has a plastic body which is ideal for general purpose measurement.

- Can be submerged up to 1m depth and 30mins. (with refilling port closed)
- Waterproof, Pb-free

Recommended

Ideal for general purpose use. For measurement of tap water and drinking water.

For extremely small samples Micro ToupH glass electrode (9618S-10D)

ToupH MICRO









This pH electrode with temperature compensation sensor can take

measurements from samples as small as 50uL, the smallest in the world

- Our original manufacturing technology (Japanese Patent No. 4054245) is used to produce 2-ply piping 3mm in diameter.
- Compatible with extremely small containers such as micro tubes etc.
- The temperature sensor is located at the tip for high-speed temperature response. Refrigerated samples can be measured without needing to wait for them to return to room temperature.

Recommended `

Can be used for a wide range of aqueous solutions, including those that cannot be obtained in large quantities. We recommend using our specialized cleaning solution after measuring samples that contain proteins.

For using a large container Long | ToupH | glass electrode (9680S-10D)













283 mm length & 8 mm diameter. The long, thin design makes this electrode perfect for measuring in large containers

Uses responsive glass that is 10 times stronger than JIS standard. The domed shape provides strength in all directions, greatly reducing damage concerns.

For measuring samples such as microbe culture fluids in test tubes. We recommend that it be used with the long type electrode stand (FA-70L).

For highly viscous samples Sleeve ToupH glass electrode (9681S-10D)

SLEEVE ToupH











Stable measurement can also be achieved for high viscous samples.

The liquid junction section is constructed with a movable sleeve that can be rinsed clean, preventing highly viscous samples from clogging the liquid junction, and maintaining stable measurement performance

Recommended

For highly viscous samples and solutions, and samples that contain non-aqueous solvents (such as cosmetics or paints). We recommend that you take measurements while using the graph display function to confirm stable responses.

(We recommend washing with a neutral detergent after use with samples that contain oil.)

For the surface of solid samples General ISFET pH electrode (0040-10D)









The sensor is located on the flat surface of the electrode tip, with less than a 100 µm protrusion from the housing.

- Measurements can be made from a minute amount of moisture on the solid sample surface.
- Use of a semiconductor sensor means there are no concerns that the electrode will be damaged.
- Also perfect for measuring samples in shallow containers such as Petri dishes.
- Replaceable sensor

Recommended

For highly viscous samples and solutions, and samples that contain non-aqueous solvents (such as cosmetics or paints). We recommend that you take measurements while using the graph display function to confirm stable responses.

(We recommend washing with a neutral detergent after use with samples that contain oil.)

Combination ISE

lon-selective electrodes are responsive to concentration of particular ions in the test liquid and are variable-potential electrodes. They are used in conjunction with reference electrodes to measure the concentration of particular ions. HORIBA's years of experience and know-how in this field are behind the wide range of ion electrodes we offer.

When measurements are made using an ion meter, calibrating it with various standard solutions will give direct readings of the ion concentration. Note that since volume-detection level changes with temperature, measurements must be taken at a fixed temperature.

Model	Accessories Included	Temp. Range (°C)	Measurement Range	pH Range
Ammonia ion (NH ₃) electrode 5002S-10C 3200698386 Overall length: 161 mm Diameter of probe: 15 mm Connector: BNC	membrane cap, 3pcs 1000mg/L ammonium ion standard solution, 50ml 100mg/L ammonium ion standard solution, 50ml ammonia electrode filling solution, 50ml syringe dropper protective pipe manual	0 - 50	0.01 - 18,000 mg/L NH ₄ + (5 x 10 ⁻⁷ to 1 mol/L NH ₄ +)	pH 12 or more
Calcium ion (Ca ²⁺) electrode 6583S-10C 3200697410 Overall length: 150 mm Diameter of probe: 16 mm Connector: BNC	calcium electrode tip, 2pcs 1000mg/L calcium ion standard solution, 50ml 100mg/L calcium ion standard solution, 50ml calcium electrode filling solution, 50ml calcium ionic strength adjustor, 50ml syringe dropper protective pipe manual	0 - 50	0.4 - 40,080 mg/L Ca ²⁺ (10 ⁻⁵ to 1 mol/L Ca ²⁺)	4.0 mg/L (10 ⁻⁴ mol/L) Ca ²⁺ , pH 5 to 11
Chloride ion (Cl ⁻) electrode 6560S-10C 3200697407 Overall length: 150 mm Diameter of probe: 16 mm Connector: BNC	chloride electrode tip 1000mg/L chloride ion standard solution, 50ml 100mg/L chloride ion standard solution, 50ml chloride electrode filling solution, 50ml chloride ionic strength adjustor, 50ml syringe dropper protective pipe water-resistant abrasive sheet manual	0 - 50	0.35 - 35,000 mg/L Cl ⁻ (10 ⁻⁵ to 1 mol/L Cl ⁻)	350 mg/L (10 ⁻² mol/L) Cl ⁻ , pH 3 to 11
Fluoride ion (F ⁻) electrode 6561S-10C 3200693774 Overall length: 150 mm Diameter of probe: 16 mm Connector: BNC	fluoride electrode tip 1000mg/L fluoride ion standard solution, 50ml 100mg/L fluoride ion standard solution, 50ml fluoride electrode filling solution, 50ml fluoride ionic strength adjustor, 50ml syringe dropper protective pipe manual	0 - 50	0.02 - 19,000 mg/L F ⁻ (10 ⁻⁶ to 1 mol/L F ⁻)	0.1 to 1,000 mg/L F ⁻ , pH 5 to 8
Nitrate ion (NO ₃ ⁻) electrode 6581S-10C 3200697408 Overall length: 150 mm Diameter of probe: 16 mm Connector: BNC	 nitrate electrode tip, 2pcs 1000mg/L nitrate ion standard solution, 50ml 100mg/L nitrate ion standard solution, 50ml nitrate electrode filling solution, 50ml nitrate ionic strength adjustor, 50ml syringe dropper protective pipe manual 	0 - 50	0.62 - 62,000 mg/L NO ₃ - (10 ⁻⁵ to 1 mol/L NO ₃ -)	62 mg/L (10 ⁻³ mol/L) NO ₃ -, pH 3 to 7
Potassium ion (K+) electrode 6582S-10C 3200697409 Overall length: 150 mm Diameter of probe: 16 mm Connector: BNC	potassium electrode tip, 2pcs 1000mg/L potassium ion standard solution, 50ml 100mg/L potassium ion standard solution, 50ml potassium electrode filling solution, 50ml potassium ionic strength adjustor, 50ml syringe dropper protective pipe manual	0 - 50	0.39 - 39,000 mg/L K+ (10-5 to 1 mol/L K+)	3.9 mg/L (10 ⁻⁴ mol/L) K ⁺ , pH 5 to 11

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Selection Coefficient	Replacement Tip	Electrode Filling Solution	100mg/L Standard Solution	1000mg/L Standard Solution	Ionic Strength Adjustor	Applications
_	NH ₃ electrode membrane caps 3200705774	500-NH3-IFS 3200697173	500-NH4-SL 3200697172	500-NH4-SH 3200697171	500-NH3-ISA 3200697174	Agriculture, Soil, Power Station Water, Fish Tanks, Sea Water, Waste Water, Plating Baths, Air / Stack Gases and Biological Cultures or Samples
$Fe^{3+} = 0.1, Fe^{2+}, Zn^{2+} = 1, Sr^{2+} = 50$ Ni ²⁺ , Cu ²⁺ = 70, Co ²⁺ = 350 Mn ²⁺ = 500, Mg ²⁺ = 1,000 Na ⁺ , K ⁺ , Ba ²⁺ , NH ₄ ⁺ = over 1,000	7683S 3200697414	500-CA-IFS 3200697177	500-CA-SL 3200697176	500-CA-SH 3200697175	500-CA-ISA 3200697178	Agriculture / Plant Tissue, Soil, Water Softening Systems, Boiler Feed Water, Drinking / Mineral Water, Biological Cultures, Dental / Clinical Analysis and Dairy / Food / Beverages Applications
S ₂ O ₃ ²⁻ , S ²⁻ , I ⁻ , Ag ⁺ , Hg ²⁺ = Not acceptable SCN ⁻ = 0.3, MnO ₄ ⁻ = 0.1 Br = 0.03 NO ₃ ⁻ , F ⁻ , HCO ₃ ⁻ , SO ₄ ²⁻ , PO ₄ ²⁻ = 1,000	7660S 3200697411	500-CL-IFS 3200697169	500-CL-SL 3200697168	500-CL-SH 3200697167	500-CL-ISA 3200697170	Agriculture, River / Tap Water, Plant Tissue, Soils, Boiler Feed Water, Clinical Analysis, Sweat, Urine, Cement, Plating Baths and Dairy / Food / Beverages Samples
Possible interference when multiply-charged ion (ex. Al³+, Fe³+) coexisted and foamed the complex.	7661S 3200693606	500-F-IFS 3200697165	500-F-SL 3200697164	500-F-SH 3200697163	500-F-TISAB 3200697166	Dental / Toothpaste / Mouth Wash, Drinking / Seawater, Wastewater, Air / Stack Gases, Acids, Soils, Food, Biological Fluids, Plant Tissue, Coal, Carbonated Beverages and Bone
CIO ₄ ⁻ , I ⁻ = Not acceptable, Br= 2 NO ₂ ⁻ = 3, CI ⁻ = 300 HCO ₃ ⁻ , H ₂ PO ₄ ⁻ , SO ₄ ²⁻ =over 1000	7681S 3200697412	500-NO3-IFS 3200697181	500-NO3-SL 3200697180	500-NO3- SH 3200697179	500-NO3-ISA 3200697182	Agriculture / Plant Tissue / Fertilizers, Surface / Seawater / Drinking Water, Sewage Effluent, Soils, Meats, Vegetables, Foods / Beverages
Rb+ = 0.4, Cs+ = 3, NH ₄ + = 70 Li+, Na+, Mg ²⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ = over 1,000	7682S 3200697413	500-K-IFS 3200697185	500-K-SL 3200697184	500-K-SH 3200697183	500-K-ISA 3200697186	Agriculture / Plant Tissue, Soils, Wastewater, River / Tap Water, Clinical Analysis, Saliva, Serum, Fertilizers, Soils and Wines, Dairy / Foods / Beverages

Metallic Electrode (For ORP Measurement)

Model	Operating Temperature Range (°C)	Electrode Material	Internal Solution	Applications
ORP Electrode 9300-10D Waterproof platinum 3-in-1 type	0-60	Pt / Glass	#300 (KCI)	Waterproof; Platinum on the flat tip allows
3014046710 Overall length: 150 mm Diameter of probe: 12 mm Connectors: BNC & phono jack			(KCI)	measurement of small volume samples

Conductivity Cells (Submersible Type)

Mode	I	Cell Constant	Measurement Range	Temp. Range (°C)	Cell Material	Thermistor	Minimum Sample Volume (ml)	Application
3551-10D	LADUA	0.1 cm ⁻¹	0.1 µS/cm - 10 mS/cm	0 - 60	Pt-Pt black /	Built-in	50	Low conductivity
3014081712	3014081712 Overall length: 175 mm Diameter of probe: 23 mm Connectors: BNC & phono iack	10 m ⁻¹	10 μS/m - 1 S/m	0-60	Glass	Built-III	50	water (e.g., deionized, distilled)
3552-10D	LADUA	1 cm ⁻¹	1 μS/cm - 100 mS/cm	0 100	Pt-Pt black /	Built-in	45	General
3014081545	Overall length: 150 mm Diameter of probe: 12 mm nnectors: BNC & phono jack	100 m ⁻¹	0.1 mS/m - 10 S/m	0 - 100	Glass	Dulit-iri	15	purpose use
3553-10D	1001	10 cm ⁻¹	10 μS/cm - 1 S/cm	0.00	Pt-Pt black /	منا المانية		High
3014081714 Cor	Overall length: 175 mm Width of probe: 28 mm nnectors: BNC & phono jack	1000 m ⁻¹	1 mS/m - 100 S/m	0 - 60	Glass	Built-in	50	conductivity water
9382-10D	(AZLA	1 cm ⁻¹	1 μS/cm - 100 mS/cm	0.00	Ti-Pt black /	D. H. L.	00.00	General
3014046709 Con	Overall length: 150 mm Diameter of probe: 16 mm inectors: BNC & phono jack	100 m ⁻¹	0.1 mS/m - 10 S/m	0 - 80	Plastic	Built-in	20-30	purpose use; Waterproof

Conductivity Cells (Flow Type)

Model	Cell Constant	Measurement Range	Temp. Range (°C)	Cell Material	Thermistor	Minimum Sample Volume (ml)	Application
3561-10D	0.1 cm ⁻¹	0.1 µS/cm - 10 mS/cm	0.00	Pt-Pt black /	Duille in	10	Low conductivity water (e.g.,
3014082350 Overall length: 143 mm Diameter of probe: 18 mm Connectors: BNC & phono jac		10 μS/m - 1 S/m	0 - 60	Glass	Built-in	10	deionized, distilled)
3562-10D	1 cm ⁻¹	1 μS/cm - 100 mS/cm	0 - 60	Pt-Pt black /	Built-in	16	General purpose
3014082350 Overall length: 205 m Diameter of probe: 18 m Connectors: BNC & phono jac	m 100111	0.1 mS/m - 10 S/m	0-60	Glass	Duiit-iii	10	use
3573-10C	10 cm ⁻¹	10 μS/cm - 1 S/cm	0 - 60	Pt-Pt black /		4	High conductivity
3014082590 Overall length: 222 mr Diameter of probe: 18 mr Connector: BN	1	1 mS/m - 100 S/m	0-00	Glass	_	4	water
3574-10C	10 cm ⁻¹	10 μS/cm - 100 mS/cm		Pt-Pt black /		0.05	Small volume sample (e.g.,
3014082592 Overall length: 136 mm Diameter of probe: 66 mm Connector: BNC		1 mS/m - 10 S/m	0 - 60	Glass	_	0.25	column chroma- tography)



501-S NIST pH Buffer Solution Kit



502-S USA pH Buffer Solution Kit



503-S Conductivity Standard Solution Kit





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230 Cleaning Solutions

pH Buffer Sol	ution Kits		
Code	Part No.	Description	Volume
501-S	3999960015	NIST pH Buffer Solution Kit (pH 4.01, 6.86, 9.18 buffers & 3.33M KCI)	250ml each
502-S	3999960016	USA pH Buffer Solution Kit (pH 4.01, 7.00, 10.01 buffers & 3.33M KCl)	250ml each
pH Buffer Solu	utions		
Code	Part No.	Description	Volume
500-2	3999960028	pH 1.68 Buffer Solution at 25°C	500ml
500-4	3999960029	pH 4.01 Buffer Solution at 25°C	500ml
500-686	3999960030	pH 6.86 Buffer Solution at 25°C	500ml
500-7	3999960031	pH 7.00 Buffer Solution at 25°C	500ml
500-9	3999960032	pH 9.18 Buffer Solution at 25°C	500ml
500-10	3999960033	pH 10.01 Buffer Solution at 25°C	500ml
500-12	3999960034	pH 12.46 Buffer Solution at 25°C	500ml
Conductivity S	Standard Solut	ion Kit	
Code	Part No.	Description	Volume
503-S	3999960017	Conductivity Standard Solution Kit (84µS/cm, 1413µS/cm, 12.88mS/cm & 111.8mS/cm)	250ml each
Conductivity S	Standard Solut	ions	
Code	Part No.	Description	Volume
500-21	3999960035	84 μS/cm Conductivity Standard Solution	500ml
500-22	3999960036	1413 μS/cm Conductivity Standard Solution	500ml
500-23	3999960037	12.88 mS/cm Conductivity Standard Solution	500ml
500-24	3999960038	111.8 mS/cm Conductivity Standard Solution	500ml
ORP Powders			
Code	Part No.	Description	Volume
160-51	3200043618	89 mV at 25°C (for 250ml solution)	10 sachets/pack
160-22	3200043617	258 mV at 25°C (for 250ml solution)	10 sachets/pack
pH/ORP Elect	rode Filling So	lutions	
Code	Part No.	Description	Volume
525-3	3999960023	3.33M KCI	250ml
300	3200043640	3.33M KCI	250ml
pH Electrode	Cleaning Solut	ions	
Code	Part No.	Description	Volume
220	3014028653	For removing inorganic residues from glass membrane and liquid junction	2 x 50ml
230	3200530494	For removing inorganic and organic residues from glass membrane (30ml Solution A & 100ml Solution B)	
250	3200366771	For removing protein residues from glass membrane and liquid junction 40	



Calcium Ion Electrode Solutions



Chloride Ion Electrode Solutions



Fluoride Ion Electrode Solutions



Potassium Ion Electrode Solutions



Ammonia Ion Electrode Solutions



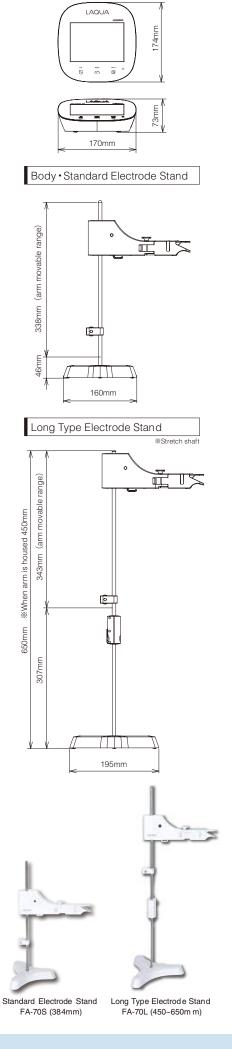
Nitrate Ion Electrode Solutions

Ion Standard Solutions				
Code	Part No.	Description	Volume	
500-NH4-SH	3200697171	1000 mg/L Ammonium Ion Standard Solution	500ml	
500-NH4-SL	3200697172	100 mg/L Ammonium Ion Standard Solution	500ml	
500-CA-SH	3200697175	1000 mg/L Calcium Ion Standard Solution	500ml	
500-CA-SL	3200697176	100 mg/L Calcium Ion Standard Solution	500ml	
500-CL-SH	3200697167	1000 mg/L Chloride Ion Standard Solution	500ml	
500-CL-SL	3200697168	100 mg/L Chloride Ion Standard Solution	500ml	
500-F-SH	3200697163	1000 mg/L Fluoride Ion Standard Solution	500ml	
500-F-SL	3200697164	100 mg/L Fluoride Ion Standard Solution	500ml	
500-NO3-SH	3200697179	1000 mg/L Nitrate Ion Standard Solution	500ml	
500-NO3-SL	3200697180	100 mg/L Nitrate Ion Standard Solution	500ml	
500-K-SH	3200697183	1000 mg/L Potassium Ion Standard Solution	500ml	
500-K-SL	3200697184	100 mg/L Potassium Ion Standard Solution	500ml	
Ionic Strength	Adjustors			

Code Part No. Description Volume 500-NH3-ISA 3200697174 Ammonia Ionic Strength Adjustor 500ml 500-CA-ISA 3200697178 Calcium Ionic Strength Adjustor 500ml 500-CL-ISA 3200697170 Chloride Ionic Strength Adjustor 500ml 500-F-TISAB 3200697166 Fluoride Ionic Strength Adjustor 500ml 500-NO3-ISA 3200697182 Nitrate Ionic Strength Adjustor 500ml 500ml 500-K-ISA 3200697186 Potassium Ionic Strength Adjustor

Ion Selective Electrode Filling Solutions				
Code	Part No.	Description	Volume	
500-NH3-IFS	3200697173	Ammonia Electrode Filling Solution	500ml	
500-CA-IFS	3200697177	Calcium Electrode Filling solution 500		
500-CL-IFS	3200697169	Chloride Electrode Filling Solution	500ml	
500-F-IFS	3200697165	Fluoride Electrode Filling Solution	500ml	
500-NO3-IFS	3200697181	Nitrate Electrode Filling Solution	500ml	
500-K-IFS	3200697185	Potassium Electrode Filling Solution	500ml	

Accessories	•	
Code	Part No.	Description
LAQUA-SW-21CFR11	3200707161	21 CFR Part 11 Software includes CD with PIN code, USB cable, and manual
Printer Printer	3014030147 (230v) 3014030146 (120v)	Printer (for GLP/GMP compliance) Cable sold separately, Plain paper
cable	3014030148	Printer cable (1.5 m)
Ink Printer	3014030149	Printer paper (20 rolls)
ribbon paper	3014030150	Ink ribbon (5 pcs/set)
Universal AC adapter	3200647413	Multi-Voltage (100-240V) with 6 plugs, (US, UK, EU, ANZ, Korea and China) 1.8 m cable
686	3014028368	Digital simulator X-51 (pH, mV, Ion, DO, temperature simulator)
X-51 X-52	3014028370	Digital simulator X-52 (Conductivity, temperature simulator)
	3200382462	LCD protection sheet (2 pcs/pack)
LCD Protection protection cover sheet	3200382441	Protection cover (Protects the meter for F-70, DS-70, 1000 series)
	3200373941	USB cable (to connect meter and PC.)
00	3014030152	Analog cable (Analog (alarm) output cable)
USB Serial cable	3014030151	Serial cable (to connect meter and PC (Serial, 9 pins))
FA-70S	3200382557	Adjustable, free-standing electrode stand (Height: 384 mm) image on the right
FA-70L	3200382560	Long, free-standing electrode stand (Height: 450-650mm) image on the right
- 12	3200373991	Arm for electrode stand FA-70A, FA-70S, & FA-70L
	3200373961	Electrode holders, 2pcs (for mounting electrode with round cap on electrode stand arm)
	3200382477	Electrode protection caps, 3pcs (for 9615S-10D, 9618S-10D, 9681S-10D pH electrode)
	3200043508	Electrode protection caps, 5pcs (for 9621-10D, 9625-10D, 9630-10D, 9631-10D, 9632-10D, 6367-10D, 6377-10D, 6252-10D, 6261-10C, 1066A-10C, 1076-10C, 2060-10T, 9300-10D, 9382-10D, 3552-10D pH electrode)
	3200382482	Electrode protection cap for long electrode (for 9680S-10D, 9480-10C pH Electrode)



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.





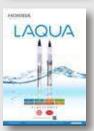
Benchtop Meters

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.



Pocket Meters

Analyzing water quality is simplified when using our LAQUAtwin range of meters. Designed to produce accurate and reliable results. Anyone, anywhere, at any time can measure samples easily with a LAQUAtwin meter. See just how good they are at our website.





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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