

HORIBA

LAQUA

Benchtop Color Touchscreen
Water Quality Meters



pH	ORP	Ion	Conductivity
Resistivity	Total Dissolved Solids		Salinity



www.horiba-laqua.com



Explore the future

HORIBA

THE HISTORY OF LAQUA

OUR HUMBLE BEGINNINGS

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.



2025 •

LAQUA TB220 | *Portable*
First turbidity meter



2021 •

LAQUA 2000 Series | *Benchtop*
Clear black-and-white backlit screen with intuitive, easy-to-use operation



2018 •

LAQUA 200 Series | *Handheld*
IP67 handheld meters with enhanced readability



2012 •

LAQUAtwin | *Pocket*
Revolutionary flat sensor technology for fast, minimal-sample testing anywhere



2003 •

F-50 | *Benchtop*
World's first pH meter with colour LCD and guided navigation



D-50 | *Portable*
Waterproof, IP67-rated housing and multi-parameter



1990 •

B-111 | *Pen Type*
Sensor allows small samples to be tested



1980 •

F-80 | *Benchtop*
World's first 0.001 pH resolution meter with automatic calibration and self-diagnostics



L-7 | *Integrated*
Introduction of a small, handheld pH meter with integrated electrode



1964 •

M-5 | *Benchtop*
Conversion to semiconductor technology enables miniaturization and faster response

• **2024**

LAQUAtwin ORP-11 & F-11 | *Pocket*
Additions to the LAQUAtwin meters range



• **2019**

LAQUA WQ-300 Series | *Handheld*
Smart handheld water quality meters with versatile channels & adaptive display



• **2013**

LAQUAact | *Handheld*
Portable water quality meter for lab and field use



• **2011**

LAQUA F-70 Series | *Benchtop*
Debut of new water quality analyzer series, starting with color touchscreen benchtop meters



• **1993**

F-20 | *Benchtop*
The world's first wireless pH meter



• **1987**

C-1 | *Card*
Development of the world's first flat sensor



• **1977**

F-7AD | *Benchtop*
Industry-first LCD display with combined glass, reference and temperature-compensating electrodes, simplifies testing



• **1950**

Japan's first glass electrode pH meter



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LAQUA

Benchtop Color Touchscreen Water Quality Meters

Touchscreen Precision. The New Benchmark.



Large Color Touchscreen

- 5.7 inches (115.2 x 86.4mm)



Effortless Single-Touch Operations

- Tap
- Flick
- Drag



Super White Glass Panel

- Chemical-resistant
- 2 mm thickness
- Comes with protection cover



Dual-Channel Display and Simultaneous Measurements (for F-73 and F-74)



Easy to Clean and Elegant Round Body



Small Footprint

- Width: 170 mm
- Depth: 174 mm
- Height: 73 mm



Compatible with 21 CFR Part 11 Software

- GLP/GMP compliant
- Data acquisition software available



Switchable Display

- Digital
- Graph
- Analog

Standard Electrode Stand with Arm

360° Electrode Stand Maneuverability

Each meter comes with FA-70S standard electrode stand (Height: 384mm)

- Adjustable arm holds up to 3 electrodes
- 360° rotation of arm for flexible and convenient beaker positioning around the stand
- Arm height adjustment via clip-release mechanism
- Vertical slide of the electrode stand arm controlled by stopper

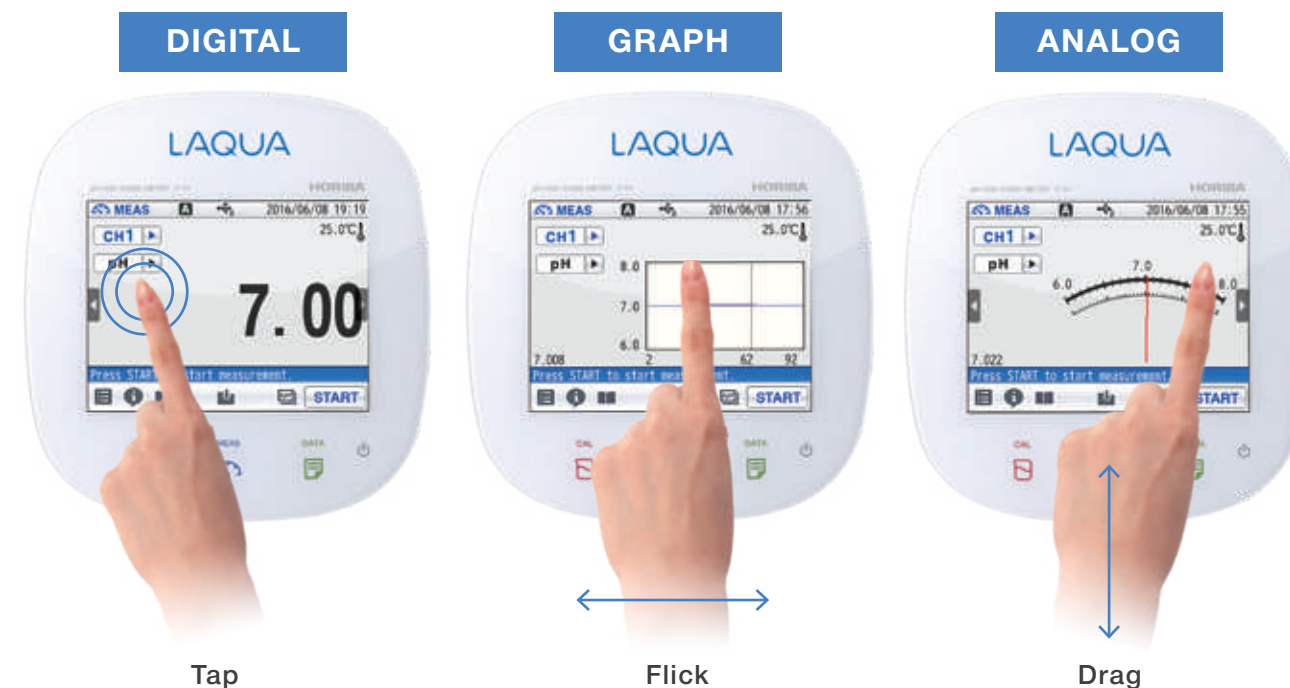
Also available:

FA-70L taller stand with telescopic shaft (Height: 650mm)



Detachable Protection Cover

Intuitive Touch-Control Operation



21 CFR Part 11 Software

Complies with U.S. FDA's system requirements for electronic records and signatures (optional)



Universal Power Adapter

- Multi-voltage (100-240V)
- 6 types of international standard plugs included: US, UK, EU, Australia / New Zealand, Korea and China



FD-70 Data Collection Software

Available for download from our website's Software Download Center

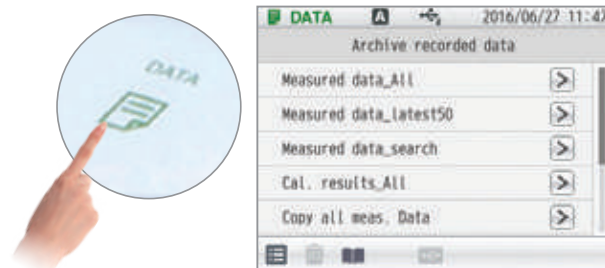
Scan for Software Download Center



Data Management

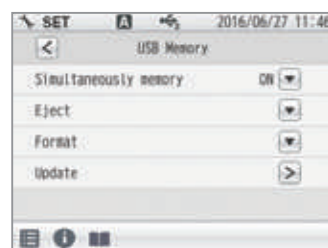
Data Key

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



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



Sample ID

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



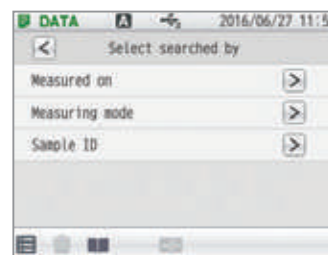
Meter Connections

- 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



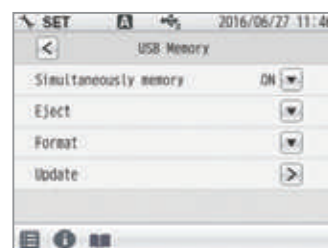
Data Search

- Data Search allows search by date, parameter or sample ID



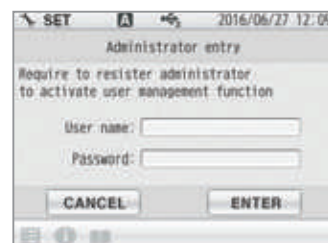
Custom Printout

- Auto or manual printing of calibration and measurement data for record-keeping
- Customizable printouts based on user preferences 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



Smart Navigation



Intelligent Assistant

Provides step-by-step guidance on calibration, sample measurement, application methods, maintenance, inspection and troubleshooting

Calibration Support Function

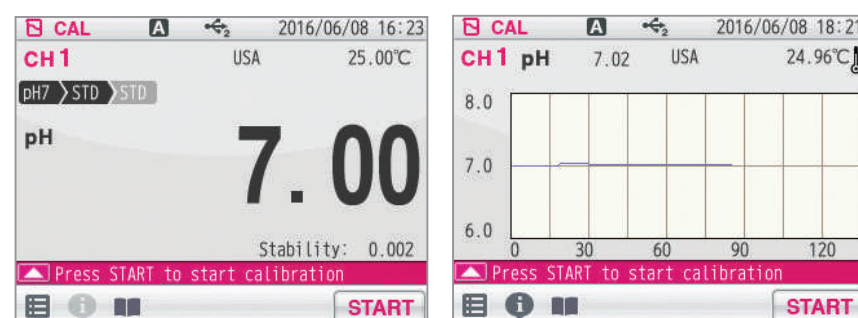
Enjoy hassle-free calibration with on-screen support. The meter will walk you through the steps of calibration.

- Auto Buffer Recognition
- Auto Calibration Function



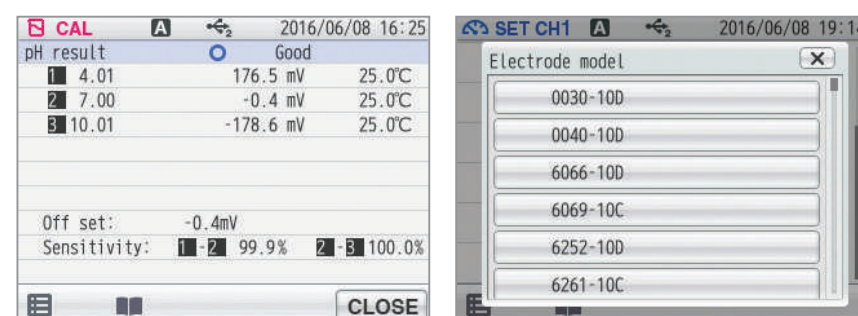
Reading Stability Check

- 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



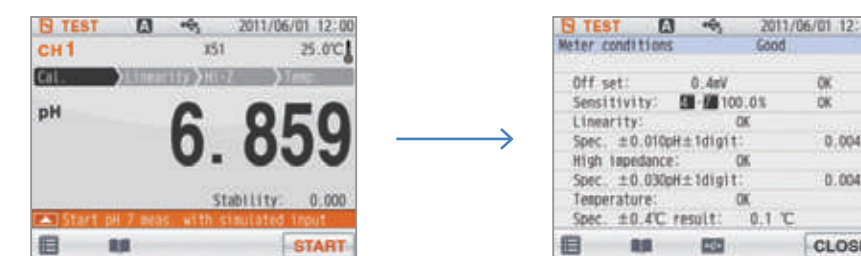
Electrode Status

- 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.



Start inspection

Display result after inspection

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.

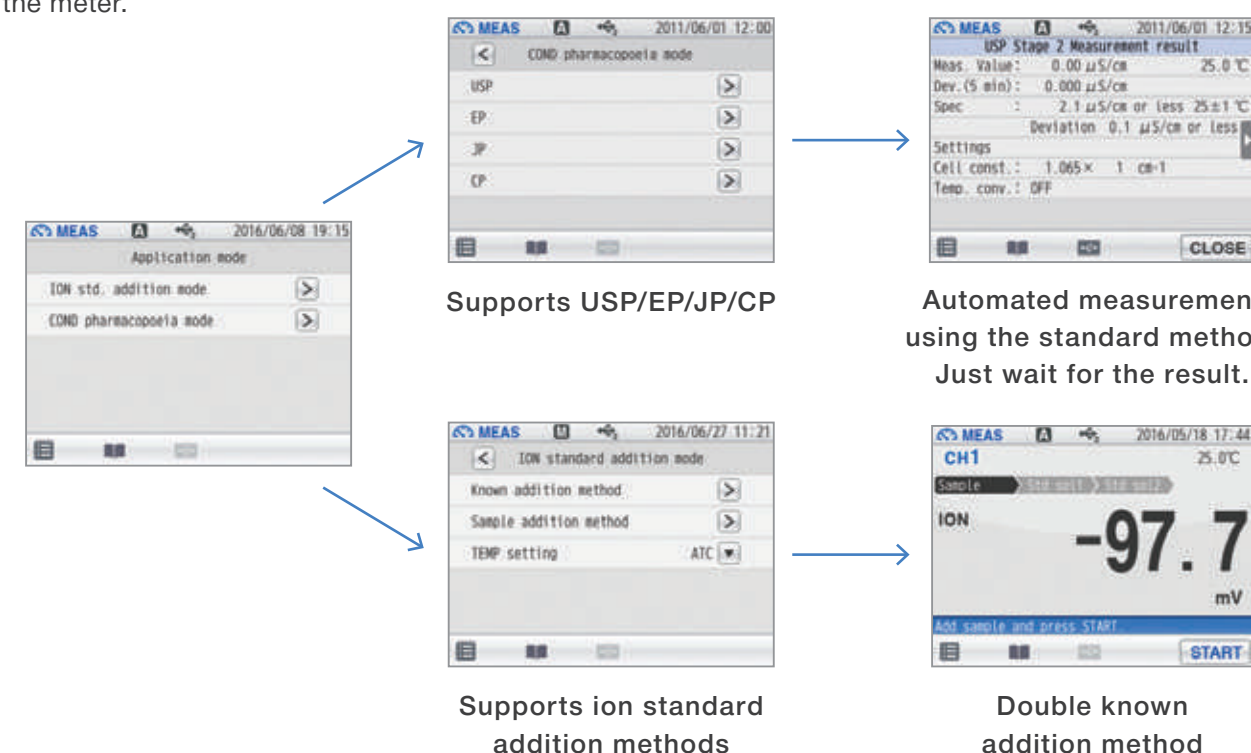


Start troubleshooting

Display tip

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.



Supports USP/EP/JP/CP

Automated measurement using the standard method. Just wait for the result.

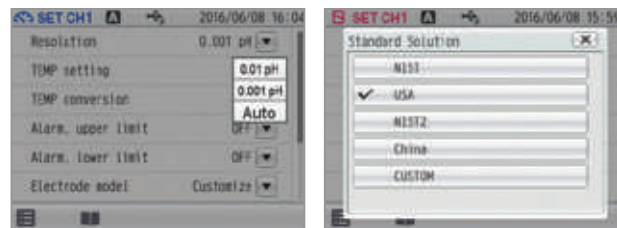
Supports ion standard addition methods

Double known addition method

Advanced Features

pH

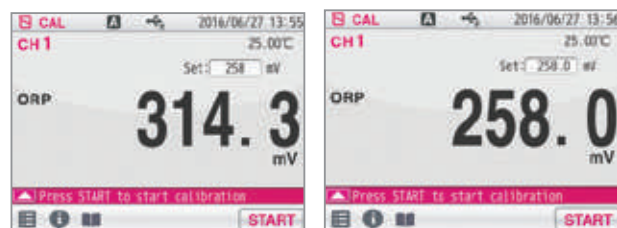
- Up to 5 calibration points
- 0.01 and 0.001 pH Resolutions
- Auto setting allows the meter to toggle between 0.01 and 0.001 resolution depending on the stability of the reading
- Auto calibration / Auto buffer recognition



pH Buffer Group	pH Buffer Values at 25°C
USA	1.68, 4.01, 7.00, 10.01, 12.45
NIST	1.68, 4.01, 6.86, 9.18, 12.45
NIST2	1.68, 4.01, 6.86, 10.01, 12.45
China	1.68, 4.01, 6.86, 9.18, 12.46
Custom	any pH buffers

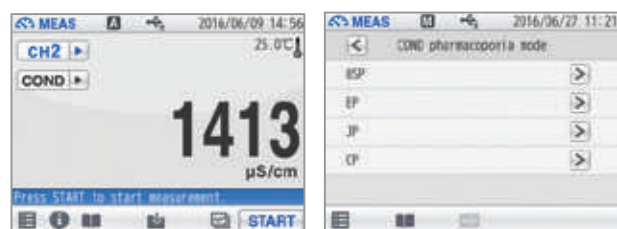
ORP

- Capable of 1-point calibration



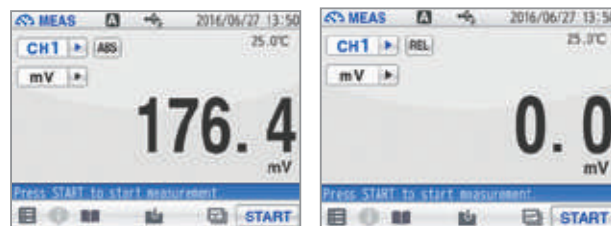
Conductivity

- 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



mV

- Display absolute potential and relative potential



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



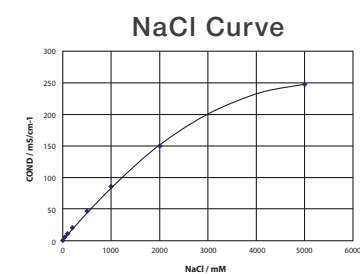
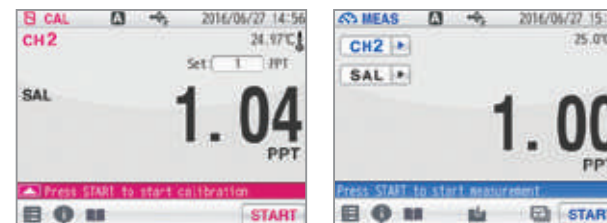
Total Dissolved Solids (TDS)

- 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

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	KCl (linear) Default: 0.5 Selectable: 0.4 to 1.0

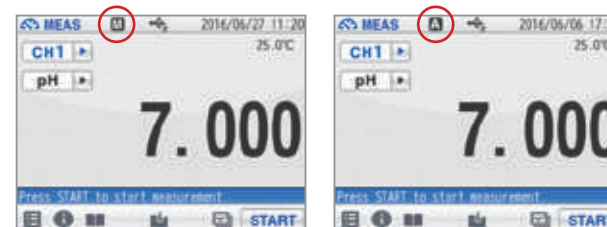
Salinity

- 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



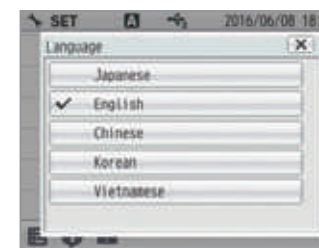
Auto Log Data

- 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 or Vietnamese



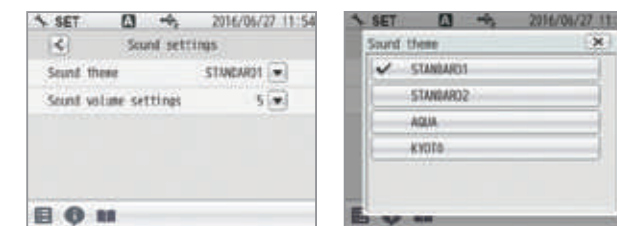
Screen Settings

- 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



F-72 and F-73

Benchtop Meters
pH/ORP/Ion/Temp (°C)



Features

- Up to 5 Calibration Points for pH and Ion
 - 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 • 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 • 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-72NBA-S (4000079440) • F-72 meter# • Electrode stand • Protection cover • Power adaptor with 6 plugs • 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 (3200575120) • F-72 meter • Electrode stand • Protection cover • Power adaptor with 6 plugs	F-73G (3200575123) • F-73 meter • Electrode stand • Protection cover • Power adaptor with 6 plugs	—
pH Electrode	9615S-10D (3200585428) Refillable, glass-body pH electrode 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)		

*Kit with 501-S is available upon request. Add 'N' suffix to the order code when ordering.
#Modified firmware: Custom1 buffer group setting (1.679, 4.008, 7.000, 9.180 and 12.454)

Meter Specifications

Model	F-72 pH/ORP/Ion/Temp (°C)	F-73 pH/ORP/Ion/Temp (°C)
Channels	Single	Dual
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	
Temperature Range	-30.0 °C to 130.0 °C	
Resolution	0.1 °C	
Accuracy	±0.4°C	
Calibration Points	✓	
Navigation Function	✓	
Memory	2000	
Auto Data-Logging	✓	
Data Search	✓	
Custom Printing	✓	
Real Time Clock	✓	
Date / Time Stamp	✓	
Sample ID Input	✓	
Operator ID Input	✓	
Password Setting	✓	
Auto Stable / Auto Hold	✓	
Offset / Slope Display	✓ (independent acid and alkaline slopes depending on calibration)	
Calibration Alarm Limit	✓	
Electrode Status	On screen display	
Diagnostic Messages	✓	
Display	Touch screen color graphic LCD	
Languages	English / Japanese / Chinese / Korean / Vietnamese	
Inputs	BNC, phono, DC socket	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	
Dimensions	170 (W) x 174 (D) x 73 (H) mm	

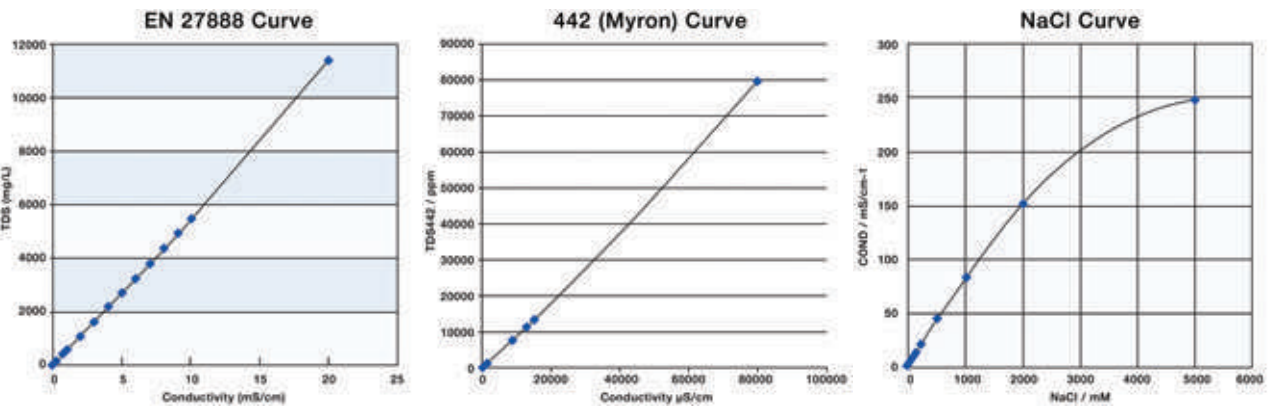
DS-72

Benchtop Meter
Conductivity/Resistivity/Total Dissolved Solids/
Salinity/Temp (°C)



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

Meter Kit	 DS-72A-S (3999960013) • DS-72 meter • Electrode stand • Protection cover • Power adaptor with 6 plugs • 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)	 DS-72HMA-S (4000079441) • DS-72 meter^ • Electrode stand • Protection cover • Power adaptor with 6 plugs • 9371-10D: Stainless steel k=0.1 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)
	DS-72A-S-CFR (3999960216)	
Meter Kit with 21 CFR Part 11 Software	—	
Conductivity Cell	3552-10D (3014081545) Platinum/Platinum black, glass-body k=1.0 conductivity cell with integrated temperature sensor, 1m cable, BNC & phono jack	
Conductivity Standard Solutions Set	503-S (3999960017) 84µS/cm, 1413µS/cm, 12.88mS/cm & 111.8mS/cm conductivity standard solutions (250ml each)	

^Modified firmware: Automatic recognition of 100µS/cm conductivity standard solution instead of 84µS/cm when automatic calibration setting is ON.

Meter Specifications	
Model	DS-72
Channels	Conductivity/Resistivity/Total Dissolved Solids/Salinity/Temp (°C) Single
Conductivity Range	0.000 µS/cm to 19.99 mS/cm (k=0.1) 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	±0.6% of full scale (±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)
Total Dissolved Solids 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
Resistivity Range	0.00 kΩ.cm to 199.9 MΩ•cm (k=0.1) 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	✓
Memory	2000
Auto Data-Logging	✓
Data Search	✓
Custom Printing	✓
Real Time Clock	✓
Date / Time Stamp	✓
Sample ID Input	✓
Operator ID Input	✓
Password Setting	✓
Auto Stable / Auto Hold	✓
Diagnostic Messages	✓
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

F-74

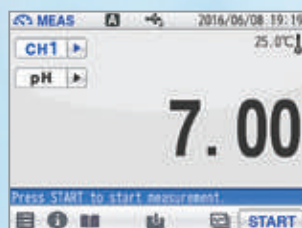
Benchtop Meter

pH/ORP/Ion/Conductivity/Resistivity/
Total Dissolved Solids/Salinity/Temp (°C)



Features

- Combined 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



Channel 1: pH



Channel 2: Conductivity



Dual Channel

Ordering Information

Meter Kit	 F-74A-S (3999960014) • F-74 meter • Electrode stand • Protection cover • Power adaptor with 6 plugs • 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 KCl solutions (250ml each) • 503-S: 84µS/cm, 1413µS/cm, 12.88mS/cm & 111.8mS/cm conductivity standard solutions (250ml each)	
	Meter Kit with 21 CFR Part 11 Software	F-74A-S-CFR (3999960214)
Meter with Electrode Stand	F-74G (3200575130) • F-74 meter • Electrode stand • Protection cover • Power adaptor with 6 plugs	
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)	

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

Meter Specifications

Model	F-74
Channel	pH/ORP/Ion/Conductivity/Resistivity/Total Dissolved Solids/Salinity/Temp (°C)
Channel	Dual
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
Conductivity Range	0.000µS/cm to 19.99mS/cm (k=0.1) 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	±0.6% of full scale (±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)
Total Dissolved Solids Range	0.01 mg/L to 1000 g/L
Resolution	0.01 mg/L
Accuracy	±0.1% of full scale
Total Dissolved Solids Curves	EN27888, Linear (0.40 to 1.0), 442, NaCl
Resistivity Range	0.00 kΩ.cm to 199.9 MΩ.cm (k=0.1) 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	✓
Memory	2000
Auto Data-Logging	✓
Data Search	✓
Custom Printing	✓
Real Time Clock	✓
Date / Time Stamp	✓
Sample ID Input	✓
Operator ID Input	✓
Password Setting	✓
Auto Stable / Auto Hold	✓
Offset / Slope Display	✓ (independent acid and alkaline slopes depending on calibration)
Calibration Alarm Limit	✓
Electrode Status	On screen display
Diagnostic Messages	✓
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
Dimensions	170 (W) x 174 (D) x 73 (H) mm



Our Selection of Electrodes



HORIBA's in-house expertise in the manufacture of electrodes is the accumulation of more than 70 years of experience. Our sophisticated electrode processing technology provides flexibility in designing various shapes of the electrode bulb and different structural designs of the electrodes.



Thick Membrane Technology

HORIBA's glass moulding technology allows the manufacture of tougher pH glass bulbs.



Miniaturization

Unique flat electrode design as well as 3mm diameter micro-electrode with integrated temperature sensor (US Patent No. 7314541/China Patent No. ZL0315796).



Fast Response & Highly Accurate

ToupH glass bulb does not compromise responsiveness and sensitivity (US Patent No. 8262877). Specially designed electrodes are available for hydrofluoric acid & strong alkaline application.



Double-Junction Electrodes

All HORIBA pH combination electrodes are double-junction electrodes. Flexible to use in a wide-range of applications.



Convenient Slider

Refillable electrodes are equipped with a slider to open or close the refilling port easily.



Built-in Clip for Hooking Onto Electrode Stand Arm

Top housing of electrodes is designed with a built-in clip to hook onto HORIBA's electrode stands.

pH Electrode Selection Guide

★ Recommended ✓ Can be measured — Not applicable

pH Electrodes	3-IN-1										COMBINATION							ISFET	PUREIL	
Type	PLASTIC				STANDARD ToupH	LONG ToupH	MICRO ToupH	SLEEVE ToupH		SLEEVE	NEEDLE	PLASTIC	STANDARD ToupH	MICRO ToupH	SLEEVE ToupH	LONG	LONG ToupH	FLAT	GENERAL	GENERAL
Model	9651-10D /9652-10D	9625-10D	9631-10D	9632-10D	9615S-10D	9680S-10D	9618N-10D	9681S-10D		6367N-10D	6252-10D	9425-10C	9415-10C	9418-10C	9481-10C	6069N-10C	9480-10C	6261-10C	0040N-10D	9600-10D
Specifications																				
Applicable temperature range (°C)	0-60 / 0-80	0-100	0-60	0-100	0-100	0-100	0-60	0-60		0-60	0-60	0-100	0-100	0-60	0-60	0-60	0-100	0-50	0-60	0-40 / 0-50
Diameter (mm)	16	16	16	16	12	8	3	12		12	12	16	12	3	12	3	8	12	16	12
Length (mm)	150	150	155	150	198	283	185	203		150	150	150	198	185	203	291	283	150	190	210
pH Sample Conditions																				
Aqueous Solution																				
Conductivity																				
High (approx. 5 S/m)	✓	✓	✓	✓	✓	✓	—	—		—	—	✓	✓	—	★	—	✓	—	—	—
Normal (over 100mS/m)	★	★	★	★	★	★	★	★		★	★	★	★	★	★	★	★	★	★	—
Low (approx.10 ~100 mS/m)	—	—	—	—	—	—	—	★		—	—	—	—	—	✓	—	—	—	—	—
Very low (approx. 5 ~100 mS/m)	—	—	—	—	—	—	—	★		—	—	—	—	—	✓	—	—	—	—	—
Strong alkaline (pH 10-12)	—	—	—	★	✓	✓	—	—		✓	—	—	✓	—	✓	—	✓	—	—	—
Strong acidity (pH 0-2) *except HF sample	—	—	★	—	★	—	—	—		—	—	—	★	—	—	—	—	—	—	—
Quick heat change (within 50°C)	★	★	★	★	—	—	—	—		—	—	★	—	—	—	—	—	—	—	—
High viscosity (approx. 5 Pa·S)	—	—	—	—	—	—	—	★		✓	—	—	—	—	★	—	—	—	—	—
Containing non-aqueous solvent	—	—	—	—	✓	✓	✓	★		✓	—	—	✓	✓	✓	—	✓	—	✓	—
Suspension	—	—	—	—	✓	✓	✓	★		—	—	—	✓	✓	★	—	✓	—	✓	—
Solid/Semisolid																				
Inside	—	—	—	—	—	—	—	—		—	✓	—	—	—	—	—	—	—	—	—
Surface	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	★	★	—
Sample Containers																				
Microtube/plate (> 50 µL)	—	—	—	—	—	—	★	—		—	—	—	—	★	—	—	—	—	—	—
Ampule (> ø4 mm)	—	—	—	—	—	—	★	—		—	—	—	—	★	—	✓	—	—	—	—
Micro container (> 2 mL)	—	—	—	—	—	✓	★	—		—	—	—	—	★	—	✓	✓	—	—	—
Tube (ID:13 mm, L:100 ~150 mm)	—	—	—	—	—	★	—	—		—	—	—	—	—	—	★	★	—	—	—
Beaker (10 mL ~ 1 L)	★	★	★	★	★	✓	✓	✓		✓	✓	★	★	✓	✓	✓	✓	✓	✓	—
Large container (> 1 L)	✓	✓	✓	✓	✓	★	—	—		—	—	✓	✓	—	—	—	★	—	—	—
Petri dish	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	★	★	—
Droplet	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	★	★	—
Water																				
Pure/ion-exchange water (approx. 0.1 mS/m) /distilled water (approx. 0.5 mS/m)	—	—	—	—	✓	—	—	★		—	—	—	✓	—	—	—	—	—	—	★
Tap/drinking water (approx. 10 mS/m)	✓	✓	—	—	✓	—	—	★		—	—	✓	✓	—	✓	—	—	—	—	—
Surface water	—	—	—	—	✓	—	—	★		—	—	—	✓	—	✓	—	—	—	—	—
Pharmaceutical water/enviromental water/ acid rain	✓	✓	—	—	✓	—	—	✓		—	—	✓	✓	—	✓	—	—	—	—	—
Chemical Reagent/Solvent																				
Caustic/strong acid *except HF sample	—	—	★	—	★	—	—	—		—	—	—	★	—	✓	—	—	—	—	—
Hydrofluoric acid	—	—	★	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—
Surfactant	—	—	—	—	✓	—	—	✓		—	—	—	✓	—	★	—	—	—	—	—
Water-based paint	—	—	—	—	✓	—	—	✓		—	—	—	✓	—	★	—	—	—	—	—
Dye/coloring agent	—	—	—	—	—	—	—	✓		—	—	—	—	—	★	—	—	—	—	—
Pharmaceutical/Biological Sample																				
Protein-containing sample	—	—	—	—	✓	—	✓	—		✓	—	—	✓	✓	★	—	—	—	—	—
Medicinal preparation	—	—	—	—	—	—	✓	✓		—	—	—	—	✓	✓	—	—	—	—	—
Enzyme solution	—	—	—	—	—	✓	★	—		—	✓	—	—	★	—	—	✓	—	—	—
Tris buffer	—	—	—	—	★	—	✓	—		—	—	—	★	✓	✓	—	—	—	—	—
Suspension	—	—	—	—	✓	—	—	★		—	—	—	✓	—	★	—	—	—	—	—
Agar medium	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	★	★	—
Food																				
Jam	—	—	—	—	✓	—	—	✓		—	✓	—	✓	—	★	—	—	✓	★ (surface)	—
Meat/fish/fruit/vegetable/dough	—	—	—	—	—	—	—	—		—	★	—	—	—	—	—	—	✓	★ (surface)	—
Honey	—	—	—	—	—	—	—	★		—	—	—	—	—	—	—	—	—	✓ (surface)	—
Cheese/butter	—	—	—	—	—	—	—	—		—	✓	—	—	—	—	—	—	✓	✓ (surface)	—
Yogurt	✓	✓	—	—	✓	—	—	—		✓	✓	✓	✓	—	✓	—	—	✓	★ (surface)	—
Beverage/Seasoning																				
Beer	✓	✓	—	—	✓	—	—	★		✓	—	✓	✓	—	★	—	—	—	—	—
Milk/carbonated drink/juice/sauce/soy sauce	—	—	—	—	✓	—	—	✓		✓	—	—	✓	—	★	—	—	—	—	—
Mayonnaise/ketchup	—	—	—	—	✓	—	—	✓		—	—	—	✓	—	★	—	—	—	—	—
Cosmetic/Lotion																				
Beauty cream/mascara	—	—	—	—	✓	—	—	✓		—	✓	—	✓	—	★	—	—	—	—	—
Gel/soap/shampoo/hairdye lotion	—	—	—	—	✓	—	—	✓		—	—	—	✓	—	★	—	—	—	—	—
Emulsified liquid	—	—	—	—	✓	—	—	★		—	—	—	✓	—	✓	—	—	—	—	—

pH Electrodes

Scan for More
Electrode Options



STANDARD ToupH Glass Electrode

9615S-10D

water
proof

Pb
Free

Reliable measurements across a wide range of sample types

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

- 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.

STANDARD Plastic Electrode

9625-10D

water
proof

Pb
Free

Stable and accurate performance for routine testing

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

- 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)

MICRO ToupH Glass Electrode

9618N-10D

water
proof

Optimized for measuring extremely small sample volumes

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.

- This pH electrode with temperature compensation sensor can take measurements from samples as small as 50µL, 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.

LONG ToupH Glass Electrode

9680S-10D

water
proof

Pb
Free

Designed for measurements in large or deep containers

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).

- 283 mm length and 8 mm diameter
- The long, thin design makes this electrode perfect for measuring in large containers and test tubes.
- Uses responsive glass that is 10 times stronger than JIS standard.
- The domed shape provides strength in all directions, greatly reducing damage concerns.

SLEEVE ToupH Glass Electrode

9681S-10D

water
proof

Pb
Free

Ideal for highly viscous samples and solutions with non-aqueous solvents

For highly viscous samples and solutions containing non-aqueous solvents, such as cosmetics or paints. We recommend taking measurements while using the graph display function to confirm stable readings and washing with a neutral detergent after use with samples that contain oil.

- 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

GENERAL ISFET pH Electrode

0040N-10D

water
proof

Specialized for surface measurements on solid samples

Perfect for measuring samples in shallow containers (e.g., petri dishes) and gelatinous materials (e.g., nutrient agar). For surface measurement of meat, paper, skin, and cloth.

- The sensor is located on the flat surface of the tip (<100µm from the housing).
- Measurement can be made from minute amount of moisture on solid sample surface
- Pure water can be applied for samples with no moisture
- Use of semiconductor sensor prevents damage such as crack or breakage
- Waterproof
- Comes with replacement sensor ISFET tip 0141N

Combination Ion Selective Electrodes



5002S-10C Ammonia (NH₃) Electrode

3200698386

Applications:

- Agriculture
- Soil
- Power station water
- Fish tanks
- Sea water
- Waste water
- Plating baths
- Air / stack gases
- Biological cultures or samples

pH range	Measurement Range	Operating temperature range (°C)
pH 12 or more	0.01 - 18,000 mg/L NH ₄ ⁺ (5 x 10 ⁻⁷ to 1 mol/L NH ₄ ⁺)	0-50



6583S-10C Calcium Ion (Ca²⁺) Electrode

3200697410

Applications:

- Agriculture / plant tissue
- Soil
- Water softening systems
- Boiler feed water
- Drinking / mineral water
- Biological cultures
- Dental / clinical analysis
- Dairy / food / beverages

pH range	Measurement Range	Operating temperature range (°C)
4.0 mg/L (10 ⁻⁴ mol/L) Ca ²⁺ , pH 5 to 11	0.4 - 40,080 mg/L Ca ²⁺ (10 ⁻⁵ to 1 mol/L Ca ²⁺)	0-50



6560S-10C Chloride Ion (Cl⁻) Electrode

3201099768

Applications:

- Agriculture
- River / tap water
- Plant tissue
- Soils
- Boiler feed water
- Clinical analysis
- Sweat
- Urine
- Cement
- Plating baths
- Dairy / food / beverage samples

pH range	Measurement Range	Operating temperature range (°C)
350 mg/L (10 ⁻² mol/L) Cl ⁻ , pH 3 to 11	0.35 - 35,000mg/L Cl ⁻ (10 ⁻⁵ to 1 mol/L Cl ⁻)	0-50



6561S-10C Fluoride Ion (F⁻) Electrode

3200693774

Applications:

- Dental / toothpaste / mouthwash
- Drinking / seawater
- Wastewater
- Air / stack gases
- Acids
- Soils
- Food
- Biological fluids
- Plant tissue
- Coal
- Carbonated beverages
- Bone

pH range	Measurement Range	Operating temperature range (°C)
0.1 to 1,000 mg/L F ⁻ , pH 5 to 8	0.02 - 19,000 mg/L F ⁻ (10 ⁻⁶ to 1 mol/L F ⁻)	0-50



6581S-10C Nitrate Ion (NO₃⁻) Electrode

3200697408

Applications:

- Agriculture
- River / Tap Water
- Plant Tissue
- Soils
- Boiler Feed Water
- Clinical Analysis
- Sweat
- Urine
- Cement
- Plating Baths
- Dairy / Food / Beverages Samples

pH range	Measurement Range	Operating temperature range (°C)
62 mg/L (10 ⁻³ mol/L) NO ₃ ⁻ , pH 3 to 7	0.62 - 62,000 mg/L NO ₃ ⁻ (10 ⁻⁵ to 1 mol/L NO ₃ ⁻)	0-50



6582S-10C Potassium Ion (K⁺) Electrode

3200697409

Applications:

- Agriculture / Plant Tissue
- Soils
- Wastewater
- River / Tap Water
- Clinical Analysis
- Saliva
- Serum
- Fertilizers
- Soils
- Wines
- Dairy / Foods / Beverages

pH range	Measurement Range	Operating temperature range (°C)
3.9 mg/L (10 ⁻⁴ mol/L) K ⁺ , pH 5 to 11	0.39 - 39,000 mg/L K ⁺ (10 ⁻⁵ to 1 mol/L K ⁺)	0-50

ORP Electrode



9300-10D Standard ORP Electrode

3014046710

For General Laboratory Application

- Waterproof
- Refillable with 3.33M KCl
- Integrated with temperature sensor

Electrode Material	Operating temperature range (°C)	Liquid junction
Pt / Glass	0-60	Ceramic

Conductivity Electrodes

Submersible Type



3551-10D Conductivity Cell

3014081712

For Low Conductivity Water (e.g., deionized, distilled)

- Cell Material: Pt-Pt black / Glass
- Minimum sample volume: 50 ml
- Integrated with temperature sensor

Cell Constant	Measurement Range	Operating temperature range (°C)
0.1 cm ⁻¹	0.1 µS/cm - 10 mS/cm	0-60
10 m ⁻¹	10 µS/m - 1 S/m	0-60



3552-10D Conductivity Cell

3014081545

For General Application

- Cell Material: Pt-Pt black / Glass
- Minimum sample volume: 15 ml
- Integrated with temperature sensor

Cell Constant	Measurement Range	Operating temperature range (°C)
1 cm ⁻¹	1 µS/cm - 100 mS/cm	0-100
100 m ⁻¹	0.1 mS/m - 10 S/m	0-100



3553-10D Conductivity Cell

3014081714

For High Conductivity Water

- Cell Material: Pt-Pt black / Glass
- Minimum sample volume: 50 ml
- Integrated with temperature sensor

Cell Constant	Measurement Range	Operating temperature range (°C)
10 cm ⁻¹	10 µS/cm - 1 S/cm	0-60
1000 m ⁻¹	1 mS/m - 100 S/m	0-60



9371-10D Conductivity Cell

3200878882

For Low Conductivity Water and Ultra-Pure Water

- Cell Material: Stainless Steel
- Minimum sample volume: 20-30 ml
- Integrated with temperature sensor

Cell Constant	Measurement Range	Operating temperature range (°C)
0.1 cm ⁻¹	0.01 µS/cm - 500 µS/cm	0-100
10 m ⁻¹	1 µS/m - 50 mS/m	0-100



9382-10D Conductivity Cell

3014046709

For General Application

- Cell Material: Ti-Pt black / Plastic
- Minimum sample volume: 20-30 ml
- Waterproof
- Integrated with temperature sensor

Cell Constant	Measurement Range	Operating temperature range (°C)
1 cm ⁻¹	1 µS/cm - 100 mS/cm	0-80
100 m ⁻¹	0.1 mS/m - 10 S/m	0-80

Flow Type



3574-10C Conductivity Cell

3014082592

For Small Volume Sample (e.g., Column Chromatography)

- Cell Material: Pt-Pt black / Glass
- Minimum sample volume: 0.25 ml

Cell Constant	Measurement Range	Operating temperature range (°C)
10 cm ⁻¹	10 µS/cm - 100 mS/cm	0-60
1000 m ⁻¹	1 mS/m - 10 S/m	0-60

Accessories and Solutions

pH Buffers

Part No.	Model	Description
3999960015	501-S	NIST pH Buffers Kit (pH 4.01, 6.86, 9.18 buffers & 3.33 M KCl, 250 ml each)
3999960016	502-S	USA pH Buffers Kit (pH 4.01, 7.00, 10.01 buffers & 3.33 M KCl, 250 ml each)
3999960028	500-2	pH 1.68 Buffer at 25°C (500 ml)
3999960029	500-4	pH 4.01 Buffer at 25°C (500 ml)
3999960030	500-686	pH 6.86 Buffer at 25°C (500 ml)
3999960031	500-7	pH 7.00 Buffer at 25°C (500 ml)
3999960032	500-9	pH 9.18 Buffer at 25°C (500 ml)
3999960033	500-10	pH 10.01 Buffer at 25°C (500 ml)
3999960034	500-12	pH 12.46 Buffer at 25°C (500 ml)

ORP Standard Solution & Powders

Part No.	Model	Description
4000047848	500-225	ORP Standard Solution 225 mV at 25°C (500 ml)
3200043618	160-51	ORP Powder 89 mV at 25°C for 250 ml (10 sachets/pack)  
3200043617	160-22	ORP Powder 258 mV at 25°C for 250 ml (10 sachets/pack)  

Conductivity Standards

Part No.	Model	Description
3999960017	503-S	Conductivity Standards Kit (84µS/cm, 1413µS/cm, 12.88mS/cm & 111.8mS/cm, 250 ml each)
3999960035	500-21	84µS/cm Conductivity Standard at 25°C (500 ml)
3999960036	500-22	1413µS/cm Conductivity Standard at 25°C (500 ml)
3999960037	500-23	12.88mS/cm Conductivity Standard at 25°C (500 ml)
3999960038	500-24	111.8mS/cm Conductivity Standard at 25°C (500 ml)



501-S NIST pH Buffers Kit



502-S USA pH Buffers Kit



500-2 pH 1.68 Buffer 500-12 pH 12.46 Buffer



ORP Standard Solution 225 mV



ORP Powders



503-S Conductivity Standards Kit

pH Electrode Cleaning Solutions

Part No.	Model	Description
3014028653	220	Cleaning solution for removing inorganic sample residues from glass membrane and liquid junction, 50 ml x 2 pcs  
3200530494	230	Cleaning solution for removing inorganic and organic sample residues from glass membrane, Solution A (30 ml) & Solution B (100 ml) 
3200366771	250	Cleaning solution for removing proteins from glass membrane and liquid junction (400 ml)  

pH/ORP Electrode Filling Solutions

Part No.	Model	Description
3999960023	525-3	3.33M KCl, 250 ml (Made in Singapore)
3200043640	300	3.33M KCl, 250 ml (Made in Japan)

Ion Selective Electrode Filling Solutions

Part No.	Model	Description
3200697173	500-NH3-IFS	Ammonia Electrode Filling Solution (500 ml)
3200697177	500-CA-IFS	Calcium Electrode Filling Solution (500 ml)
3200697169	500-CL-IFS	Chloride Electrode Filling Solution (500 ml)
3200697165	500-F-IFS	Fluoride Electrode Filling Solution (500 ml)
3200697181	500-NO3-IFS	Nitrate Electrode Filling Solution (500 ml)
3200697185	500-K-IFS	Potassium Electrode Filling Solution (500 ml)



220 Cleaning Solution



230 Cleaning Solution



250 Cleaning Solution



3.33M KCl 250ml

Ion Standard Solutions

Part No.	Model	Description
3200697171	500-NH4-SH	1000 mg/L Ammonium Ion Standard Solution (500 ml)
3200697172	500-NH4-SL	100 mg/L Ammonium Ion Standard Solution (500 ml)
3200697175	500-CA-SH	1000 mg/L Calcium Ion Standard Solution (500 ml)
3200697176	500-CA-SL	100 mg/L Calcium Ion Standard Solution (500 ml)
3200697167	500-CL-SH	1000 mg/L Chloride Ion Standard Solution (500 ml)
3200697168	500-CL-SL	100 mg/L Chloride Ion Standard Solution (500 ml)
3200697163	500-F-SH	1000 mg/L Fluoride Ion Standard Solution (500 ml)
3200697164	500-F-SL	100 mg/L Fluoride Ion Standard Solution (500 ml)
3200697179	500-NO3-SH	1000 mg/L Nitrate Ion Standard Solution (500 ml)
3200697180	500-NO3-SL	100 mg/L Nitrate Ion Standard Solution (500 ml)
3200697183	500-K-SH	1000 mg/L Potassium Ion Standard Solution (500 ml)
3200697184	500-K-SL	100 mg/L Potassium Ion Standard Solution (500 ml)
3200987464	500-NA-SL	100 mg/L Sodium Ion Standard Solution (500 ml)
3200987463	500-NA-SH	1000 mg/L Sodium Ion Standard Solution (500 ml)

Ion Strength Adjustors

Part No.	Model	Description
3200697174	500-NH3-ISA	Ammonia Ionic Strength Adjustor (500 ml) 
3200987466	500-NH4-ISA	Ammonium Ionic Strength Adjustor (500 ml)
3200697178	500-CA-ISA	Calcium Ionic Strength Adjustor (500 ml)
3200697170	500-CL-ISA	Chloride Ionic Strength Adjustor (500 ml)
3200697166	500-F-TISAB	Fluoride Ionic Strength Adjustor (500 ml)
3200697182	500-NO3-ISA	Nitrate Ionic Strength Adjustor (500 ml)
3200697186	500-K-ISA	Potassium Ionic Strength Adjustor (500 ml)
3200987465	500-NA-ISA	Sodium Ionic Strength Adjustor (500 ml)



Ammonia Ion Electrode Solutions



Ammonium Ion Electrode Solutions



Calcium Ion Electrode Solutions



Chloride Ion Electrode Solutions



Fluoride Ion Electrode Solutions



Nitrate Ion Electrode Solutions



Potassium Ion Electrode Solutions



Sodium Ion Electrode Solutions

Accessories

Part No.	Model	Description
3200707161	LAQUA-SW-21CFR11	21 CFR Part 11 Software includes CD with PIN code, USB cable, and manual
3014030147		230v Printer (for GLP/GMP compliance) Cable sold separately, Plain paper
3014030146		120v Printer (for GLP/GMP compliance) Cable sold separately, Plain paper
3014030148		Printer cable (1.5 m)
3014030149		Printer paper (20 rolls)
3014030150		Ink ribbon (5 pcs/set)
3200869791		Multi-Voltage (100-240V) with 6 plugs, (US, UK, EU, ANZ, Korea and China), 1.8 m cable
3200382441		Protection cover (for F-70, DS-70, 1000 series)
3200373941		USB cable (for meter-PC connection)
3014030152		Analog cable (for analog alarm output)
3014030151		Serial cable (for meter-PC (9pins serial) connection)
3200382557	FA-70S	Adjustable, free-standing electrode stand (Height: 384 mm)
3200382560	FA-70L	Long, free-standing electrode stand (Height: 450-650 mm)
3200373991		Arm for electrode stand FA-70A, FA-70S & FA-70L
3200043508		Electrode protection caps, 5 pcs/pack
3200382482		Electrode protection cap for long electrode (for 9680S-10D, 9480-10C pH Electrode)
3200044409		Clear pH sensor tip guard (for plastic pH electrodes: 9651/9652, 9625 etc.), 5 pcs/pack
3200844642		Glass flow cell (for 300-2C-C and 9371-10D)



21 CFR Part 11 Software



Printer



Printer Cable



Ink Ribbon



Printer Paper



Universal AC adapter



Protection cover



USB cable



Serial cable



Clear pH Sensor Tip Guard



Glass Flow Cell



FA-70S Adjustable Electrode Stand



FA-70L Long Electrode Stand



Arm for Electrode Stand



Electrode Protection Caps (5 pcs/pack)



Electrode Protection Caps for Long Electrode

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