

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







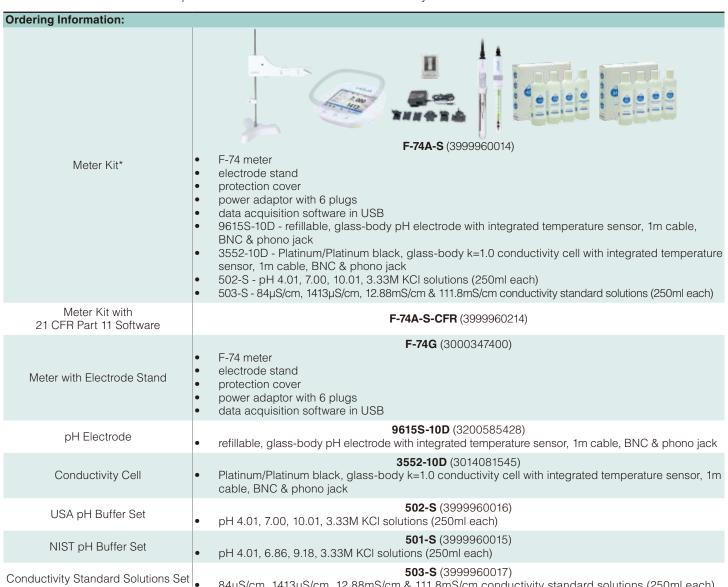
*Kit with 501-S is available upon request. Add 'N' suffix to the order code when ordering.



Channel 2: Conductivity



Dual Channel



84µS/cm, 1413µS/cm, 12.88mS/cm & 111.8mS/cm conductivity standard solutions (250ml each)

	E 7/			
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	±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			
Measurement Onits	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			
B 188 B	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)			
Danakatan	0.0 Ω.cm to 1.999 MΩ•cm (k=10.0)			
Resolution Accuracy	0.05% of full scale ±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 NaCl / Seawater			
Salinity Curves	NaCi / 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			
Dimensions	170 (W) x 174 (D) x 73 (H) mm			

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	Waterproof; Platinum on the flat tip allows
3014046710 Overall length: 150 mm Diameter of probe: 12 mm Connectors: BNC & phono jack	0 00	. ty class	(KCI)	measurement of small volume samples

Conductivity Cells (Submersible Type)

Model	Cell Constant	Measurement Range	Temp. Range (°C)	Cell Material	Thermistor	Minimum Sample Volume (ml)	Application
3551-10D	0.1 cm ⁻¹	0.1 µS/cm - 10 mS/cm	0 - 60	Pt-Pt black /	Built-in	50	Low conductivity
Overall length: 175 m 3014081712	m	10 μS/m - 1 S/m	0-60	Glass	Built-III	50	water (e.g., deionized, distilled)
3552-10D	1 cm ⁻¹	1 μS/cm - 100 mS/cm	0 100	Pt-Pt black /	Built-in	45	General
Overall length: 150 m 3014081545 Diameter of probe: 12 m Connectors: BNC & phono ia	m	0.1 mS/m - 10 S/m	0 - 100	Glass	Bullt-III	15	purpose use
3553-10D	10 cm ⁻¹	10 μS/cm - 1 S/cm	0 00	Pt-Pt black /	Built-in	50	High
Overall length: 175 m 3014081714 Width of probe: 28 m Connectors: BNC & phono ja	m	1 mS/m - 100 S/m	0 - 60	Glass	Dulit-iri	50	conductivity water
9382-10D	1 cm ⁻¹	1 μS/cm - 100 mS/cm	0.00	Ti-Pt black /	Duille in	00.00	General
Overall length: 150 m 3014046709 Diameter of probe: 16 m Connectors: BNC & phono jac	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	0-60 FI-FI Black / 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	- Dulit-iri	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 m Diameter of probe: 18 m Connector: BN	1	1 mS/m - 100 S/m	0 - 60	Glass	_	4	water
3574-10C	10 cm ⁻¹	10 μS/cm - 100 mS/cm	0 - 60	Pt-Pt black / Glass	_	0.25	Small volume sample (e.g., column chroma- tography)
3014082592 Overall length: 136 mm Diameter of probe: 66 mm Connector: BNC	6 mm	1 mS/m - 10 S/m					



501-S NIST pH Buffer Solution Kit



502-S USA pH Buffer Solution Kit



503-S Conductivity Standard Solution Kit



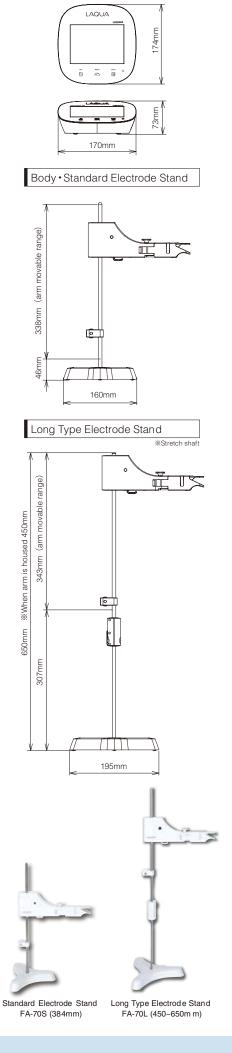


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Cleaning Solutions

pH Buffer Sc	olution 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 Sc	olutions			
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	399960030	pH 6.86 Buffer Solution at 25°C	500ml	
500-7	399960031	pH 7.00 Buffer Solution at 25°C	500ml	
500-9	399960032	pH 9.18 Buffer Solution at 25°C	500ml	
500-10	399960033	pH 10.01 Buffer Solution at 25°C	500ml	
500-12	399960034	pH 12.46 Buffer Solution at 25°C	500ml	
Conductivity	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	Standard Solut			
Code	Part No.	Description	Volume	
500-21	399960035	84 μS/cm Conductivity Standard Solution	500ml	
500-22	3999960036	1413 μS/cm Conductivity Standard Solution	500ml	
500-23	399960037	12.88 mS/cm Conductivity Standard Solution	500ml	
500-24	3999960038	111.8 mS/cm Conductivity Standard Solution	500ml	
ORP Powder	's			
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 Elec	trode 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) 30ml & 10		
250	3200366771	For removing protein residues from glass membrane and liquid junction 400ml		
mombrane and riquid junction				

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
- 1-12	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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