

Features:	F-74 Dual Channel
 Combine the functions of F Dual channel and simultan Channel 1: pH, Ion, m' Channel 2: Conductivi and TDS Switchable single or dual contents 	r-72 and DS-72 models eous measurements V, ORP ty, Salinity, Resistivity
CHINE PHINE 7. Channel 1: p	605/08 19:19 35.001 20506/09 14:55 000 1413 000 1413 start Start H Channel 2: Conductivity
Ordering Information:	
Meter Kit*	 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) 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-74 G (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)
*Kit with 501-S is available upon req	uest. Add 'N' suffix to the order code when ordering.

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	E 74	
Models	F-74 Dual Channel pH/ORP/Ion/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 Buffer Options	Up to 5 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 4 (Auto (Magual)	
Calibration Points	4 (Auto / Manual) Auto Ranging / Manual	
Measurement Units	S/cm, S/m, Fix (mS/cm)	
TDS Range	0.01 mg/L to 1000 g/L	
Resolution Accuracy	0.01 mg/L ±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 Accuracy	0.05% of full scale ±0.6% of full scale (±1.5% full scale > 1.80 MΩ∙cm)	
Accuracy		
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 Yes	
Sample ID Input 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 Inputs	English / Japanese / Chinese / Korean / Vietnamese 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	

	lootro	do					3-in-1	ELECTR	ODES						CON	BINATIO	ON ELEC	TRODES
-	lectro			PLA	STIC		STANDARD	LONG	MICRO	SLEEVE	SLEEVE	NON-	NEEDLE	PLASTIC	STANDARD	MICRO	SLEEVE	LONG
Selec	ction (Guide	9625-10D	9630-10D	9631-10D	9632-10D	ToupH 9615S-10D	ToupH 9680S-10D	ToupH 9618S-10D	ToupH 9681S-10D	6367-10D	AQUEOUS 6377-10D	6252-10D	9425-10C	ToupH 9415-10C	ToupH 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
0 10 11	range (°C)																	
Specification	Diameter (mr	n)	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	nle Con	ditions																
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		mS/m) Low (approx.10																
	Conductivity	~100 mS/m		۲						0		۲					0	
		Very low (approx. 5 ~100 mS/m		0						0		۲					0	
		High (approx. 5 S/m)	0	0	0	0	0	0		۲				0	0			
Aqueous	Strong alkali	ne (pH 10-12)				۲	0	0		0	0				0		0	
Solution		y (pH 0-2) * Except			۲		۲				_				۲			
	HF sample	(
		nange (within 50°C)	۲	۲		۲								۲				
		y (approx. 5 Pa·S)								۲	0	۲					۲	
	Containing n solvent	un-aqueous					0	0	0	0	0	۲			0	0	0	
	Suspension						0	0	0	۲		۲			0	0	۲	
Solid/	Inside												0					
Semisolid	Surface																	
	1		, 1		1			, 1										1
	Microtube/pl	ate (> 50 µL)							۲							۲		
	Ampule	>ø4 mm							۲							۲		0
	Micro contair	ner (> 2 mL)						0	۲							۲		0
Sample	Tube	ID:13 mm, L:100 ~ 150 mm						۲										۲
Sample Containers	Beaker	10 mL ~ 1 L	۲		۲	۲	۲	0	0	0	0	0	0	۲	۲	0	0	0
	Large contair		0	0	0	0	0	0						0	0			
	Petri dish																	
	Droplet																	
	Pure/ion-exc																	
	water (approx						0								0			
Water	Tap/drinking 10 mS/m)	water (approx.	0	۲			0			0		۲		0	0		0	
	Surface wate	r		۲			0			0		۲			0		0	
	Pharmaceuti		0	0			0			0				0	0			
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	Enviromental Caustic/stror HF sample)	water/acid rain ng acid (Except	0	0	۲		0 ()			0		0		0				
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			ISFET ELECTRODE
	LONG ToupH	FLAT	GENERAL
	9480-10C	6261-10C	0040-10D
	0-100	0-50	0-60
	8	12	16
	283	150	190
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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)



function to confirm stable responses. (We recommend washing with a neutral detergent after use with samples that contain oil.)

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			#300	Watararaaf: Distinum on the flat tin allows
	0-60	Pt / Glass	(KCI)	Waterproof; Platinum on the flat tip allows measurement of small volume samples
3014046710 Overall length: 150 mm Diameter of probe: 12 mm Connectors: BNC & phono jack				

Conductivity Cells (Submersible Type)

Model		Cell Constant	Measurement Range	Temp. Range (°C)	Cell Material	Thermistor	Minimum Sample Volume (ml)	Application
3551-10D	LADUN	0.1 cm ⁻¹	0.1 µS/cm - 10 mS/cm	0 - 60	Pt-Pt black /	Duilt in	50	Low conductivity
	712 Overall length: 175 mm Diameter of probe: 23 mm Connectors: BNC & phono lack		10 µS/m - 1 S/m	0-00	Glass	Built-in	50	water (e.g., deionized, distilled)
3552-10D	Laon a	1 cm ⁻¹	1 µS/cm - 100 mS/cm	0 - 100	Pt-Pt black /	Built-in	15	General
	Overall length: 150 mm Diameter of probe: 12 mm Connectors: BNC & phono jack		0.1 mS/m - 10 S/m	0 - 100	Glass	Duit-in	15	purpose use
3553-10D	LACKA MIL	10 cm ⁻¹	10 µS/cm - 1 S/cm	0 - 60	Pt-Pt black /	Built-in	50	High
3014081714 Conn	Overall length: 175 mm Width of probe: 28 mm rectors: BNC & phono jack	1000 m ⁻¹	1 mS/m - 100 S/m	0-00	Glass	Duiit-in	50	conductivity water
9382-10D		1 cm ⁻¹	1 µS/cm - 100 mS/cm	0 - 80	Ti-Pt black /	Built-in	20-30	General
	Overall length: 150 mm Diameter of probe: 16 mm ectors: BNC & phono jack	100 m ⁻¹	0.1 mS/m - 10 S/m	0 - 60	Plastic	Duiit-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	1	0.1 cm ⁻¹	0.1 µS/cm - 10 mS/cm	0 - 60	Pt-Pt black /	Built-in	10	Low conductivity water (e.g.,
3014082350	Overall length: 143 mm Diameter of probe: 18 mm Connectors: BNC & phono jack	10 m ⁻¹	10 µS/m - 1 S/m	0 - 00	Glass	Duiit-iii	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	082350 Overall length: 205 mm Diameter of probe: 18 mm Connectors: BNC & phono jack		0.1 mS/m - 10 S/m	0 - 60	Glass	Bullt-In	10	use
3573-10C	1	10 cm ⁻¹	10 µS/cm - 1 S/cm	0 - 60	Pt-Pt black /		4	High
3014082590	Overall length: 222 mm Diameter of probe: 18 mm Connector: BNC	1000 m ⁻¹	1 mS/m - 100 S/m	0 - 00	Glass		4	conductivity water
3574-10C		10 cm ⁻¹	10 µS/cm - 100 mS/cm	0 60	Pt-Pt black /		0.05	Small volume sample (e.g.,
3014082592	Overall length: 136 mm Diameter of probe: 66 mm Connector: BNC	1000 m ⁻¹	1 mS/m - 10 S/m	0 - 60	Glass		0.25	column chroma- tography)

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pH Buffer Solution Kits

501-S NIST pH Buffer Solution Kit



502-S USA pH Buffer Solution Kit



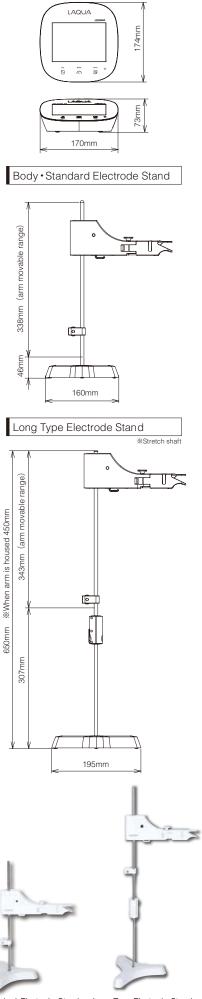
503-S Conductivity Standard Solution Kit





Code Part No. Description Volume NIST pH Buffer Solution Kit 501-S 3999960015 250ml each (pH 4.01, 6.86, 9.18 buffers & 3.33M KCl) USA pH Buffer Solution Kit 502-S 3999960016 250ml each (pH 4.01, 7.00, 10.01 buffers & 3.33M KCI) pH Buffer Solutions 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 pH 7.00 Buffer Solution at 25°C 500ml 3999960031 500-9 3999960032 500ml pH 9.18 Buffer Solution at 25°C 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 Standard Solution Kit** Code Part No. Description Volume Conductivity Standard Solution Kit 503-S 3999960017 250ml each (84µS/cm, 1413µS/cm, 12.88mS/cm & 111.8mS/cm) **Conductivity Standard Solutions** 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 3999960038 500-24 111.8 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 3200043617 258 mV at 25°C (for 250ml solution) 160-22 10 sachets/pack pH/ORP Electrode Filling Solutions Part No. Volume Code Description 3999960023 525-3 3.33M KCI 250ml 300 3200043640 3.33M KCI 250ml pH Electrode Cleaning Solutions Code Part No. Description Volume For removing inorganic residues from glass 3014028653 220 1 2 x 50ml membrane and liquid junction For removing inorganic and organic residues from 230 3200530494 30ml & 100ml glass membrane (30ml Solution A & 100ml Solution B) For removing protein residues from glass 250 3200366771 400ml membrane and liquid 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. 686.	3014028368	Digital simulator X-51 (pH, mV, Ion, DO, tempera- ture simulator)
X-51 X-52	3014028370	Digital simulator X-52 (Conductivity, temperature simulator)
$\bigcirc \bigcirc$	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.)
\bigcirc	3014030152	Analog cable (Analog (alarm) output cable)
USB Serial cable cable	3014030151	Serial cable (to connect meter and PC (Serial, 9 pins))
FA-70S	3200382557	Adjustable, free-standing electrode stand (Height: 384 mm) <i>image on the right</i>
FA-70L	3200382560	Long, free-standing electrode stand (Height: 450- 650mm) <i>image on the right</i>
	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)



Standard Electrode Stand FA-70S (384mm) Long Type Electrod e Stand FA-70L (450~650m m)

Visit HORIBA's website!

Water Quality Analyzers

www.horiba-laqua.com

With over 60 years of engineering excellence, HORIBA's diverse range of water quality analyzers and electrodes are ideal for everyday laboratory needs through to the most demanding of applications. Visit our website for a wealth of useful information and water quality measurement tips to help you obtain the best results in your work.







Benchtop Meters

Developed using extensive feedback from users, our new LAQUA meters deliver the best solution for water quality analysis. Our LAQUA website features an online 'Selection Guide' to enable you to find the perfect LAQUA meter and electrode for your need.



Handheld Meters

In the lab, in the field or anywhere you need it. LAQUA Handheld meters are designed for use with one hand and with an IP67 waterproof rating and shock-resistant casing. Meters can be used for long periods, even in dark places, making it ideal for field measurements in rivers and lakes.



Electrodes

Various electrodes to match any application. A wide range of products for both benchtop and portable systems are available, including easy and reliable standard models, applicationfocused 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.

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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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