

LAQUA

LAQUA 1500 Series Benchtop Water Quality Meters



pH ORP Temperature Resistivity

Conductivity Total Dissolved Solids Salinity











The 9-button operation ensures

ease of use. The flat surface

makes cleaning easy.

Ideal for student training and routine applications.

Great value for money: no fancy bells and whistles which sounds good but are rarely used.

From a reputed manufacturer—one whose company was started with pH meters back in 1945.



LAQUA 02

of the electrode quality.



Available Models

LAQUA PH1500

ORP Temperature

- Highly accurate pH and ORP measurements
- Automatic temperature compensation
- Accepts up to 6 pH calibration points
- Auto calibrates USA, NIST, & DIN pH buffers
- Displays offset & average slope
- Allows 1-point ORP calibration and temperature calibration



Model	Description
PH1500 3200891886	Meter with integrated electrode stand
	 Universal power adaptor with 6 plugs
	Instruction Manual
PH1500-SR 1300095720	• PH1500
	• 9625-10D refillable, plastic body pH electrode
	• pH 4, 7 and 10 buffer solutions & 3.33M KCl (1 x 250ml each)

LAQUA EC1500

Conductivity TDS Resistivity

Salinity

Temperature



- Automatic calibration at 84µS/cm, 1413µS/cm, 12.88mS/cm, & 111.8mS/cm standards
- Displays average calibration factor
- tions

	•	l constant salinity cal	ibration and temperature calibration d salinity curves for various applicati
ALICO MA		Model	Description
250		EC1500 3200899658	Meter with integrated electrode standUniversal power adaptor with 6 plugsInstruction Manual
1413		EC1500-S 1300095721	 EC1500 9382-10D plastic body conductivity cell k=1.0 Conductivity standard, 84µS, 1413µS, 12.88mS (
0 0			

LAQUA PC1500

ORP Conductivity TDS Resistivity

Salinity

Temperature

(1 x 250ml each)

- Measure pH and Conductivity at the same time
- Combination of the PH1500 and EC1500



Model	Description		
PC1500 3200899659	Meter with integrated electrode stand		
	 Universal power adaptor with 6 plugs 		
	Instruction Manual		
PC1500-SR 1300095722	• PC1500		
	9625-10D refillable, plastic body pH electrode		
	9382-10D plastic body conductivity cell k=1.0		
	• pH 4, 7 and 10 buffer solutions & 3.33M KCl (1 x 250ml each)		
	• Conductivity standard, 84µS, 1413µS, 12.88mS (1 x 250ml each)		

Meter Specifications

	PH1500	PC1500	EC1500
Parameters	pl	I / ORP	
1 diameters	·		istivity / TDS / Salinity
ρΗ			
Range	-2.00 t	o 16.00 pH	
Resolution	0.	01 pH	
Accuracy	± (0.01 pH	
Buffer Groups	USA,	NIST, DIN	
Calibration points	Up to 5 (USA, N	NIST) / Up to 6 (DIN)	
ORP			
Range	± 20	000.0 mV	
Resolution	0.1 mV (< ±1000 n	nV), 1 mV (≥ ±1000mV)	
Accuracy	±0.3 mV (< ±1000 mV), (0.3% of reading (≥ ±1000mV)	
Calibration points	1 (Up t	o ±200 mV)	
Conductivity			·
Range		0.00 μS	– 200.0 mS
Resolution		0.01 / 0.1 / 1 µ	uS; 0.01 / 0.1 mS
Accuracy			% full scale > 18.0 mS/cm
Reference Temperature			°C (adjustable)
Temperature Coefficient			per °C (adjustable)
Call Constants			00 (adjustable)
Calibration points			/ Up to 5 (Manual)
Units			(Auto ranging)
Resistivity			· · · · · · · · · · · · · · · · · · ·
Range		0.000 Ω•cm	to 20.0 MΩ•cm
Resolution		0.5%	full scale
Accuracy		±0.6% full scale, ±1.5%	6 full scale > 1.80 MΩ•cm
Total Dissolved Solids (TDS)			
Range		0 ppm	– 100 ppt
Resolution			om ; 0.01 / 0.1 ppt
Accuracy			full scale
TDS Curves		EN27888, 442, NaC	Cl, Linear (0.40 to 1.00)
Salinity			
Range		0.0 to 100.0 pp	t / 0.00 to 10.00 %
Resolution			ot / 0.01%
Accuracy		±0.2%	full scale
Salinity Curves		NaCI /	Seawater
Calibration points		1	point
Temperature			
Range		-30.0 to 130.0 °C / -22.0 to 266.0 °I	F
Resolution	0.1 °C / °F		
Accuracy	± 0.5 °C / ± 0.9 °F		
Calibration points	1 point (± 10.0 °C / ± 18.0 °F range in 0.1 °C increments)		
General Features			
Memory		1000 data sets	
Auto Data Logging	Yes – interval from 2 to 999 seconds		
Measurement modes	Auto Stable / Auto Hold / Real Time		
Offset & Slope display		Yes (Average slope)	
Auto Shut-Off		Yes (programmable: 1 to 30 mins.)
Electrode status		On screen display	
PC / Printer Communication		Phono jack (USB / RS232)	
Meter Input	1 x BNC, 1 x phono (ATC)	2 x BNC, 2 x phono (ATC)	1 x BNC, 1 x phono (ATC)
Display	Large	monochrome 160 segment LCD, 85	x 104 mm
Electrode Stand		Integrated	
Power Requirement		AC adaptor 100 - 240V, 50 - 60Hz	
Dimensions	160 x 15	50 x 67 mm (meter) / 410 x 260 x 230 i	mm (boxed)
Weight Meter / Boxed	720g / 3700g	740g / 4500g	720g / 3700g

pH, ORP and Conductivity electrodes

Model	pH electrodes	Range	Material	Features
9652-10D	General purpose pH electrode	0 to 14 pH	Plastic body	Integrated temperature sensor
3200786359		0 to 60 °C		IP67 waterproof
				 Porous sintered polyethylene liquid junction
		LAQUA		Gel filled electrode
4		C/AGO/A		Not refillable
				• 150 x 16mm, 1 meter cable with BNC
9625-10D	General purpose pH electrode	0 to 14 pH	Plastic body	 Integrated temperature sensor
3200360505		0 to 100 °C		 IP67 waterproof
-				Ceramic liquid junction
COL		(D) LAQUA		KCL filled electrode
-				Refillable
				• 150 x 16mm, 1 meter cable with BNC
9615S-10D	Extra strong pH electrode	0 to 14 pH	Glass body	Integrated temperature sensor
3200585428	 Special glass makes it 10x stronger 	0 to 100 °C		• IP67 waterproof
				 Ceramic liquid junction
		LAQUA LAQUA		KCL filled electrode
				• Refillable
				• 198 x 12mm, 1 meter cable with BNC
9681S-10D	Sleeve pH electrode	0 to 14 pH	Glass body	Integrated temperature sensor
3200585463	 Easy to clean moveable sleeve 	0 to 60 °C		• IP67 waterproof
				 Moveable sleeve junction
		(B) LAQUA		KCL filled electrode
				Refillable
				• 203 x 12mm, 1 meter cable with BNC
9618S-10D	Micro pH electrode	0 to 14 pH	Glass bcdy	Integrated temperature sensor
3200585447	 Measure samples as small as 50µL. 	0 to 60 °C		IP67 waterproof
	and the same of th			Ceramic liquid junction
MARK THOMAS		(a) LAQUA		KCL filled electrode
				Refillable
		=		• 185 x 3mm, 1 meter cable with BNC
Model	Conductivity probes	Range	Mater al	Features
9382-10D	Conductivity probe	1µS/cm-100mS/cm	Plastic body	Integrated temperature sensor
3014046709	 General purpose 	0 to 80 °C		• IP67 waterproof
		10010		Titanium / Platinum Black cell
		LAQUA		• Cell constant K=1.0 cm ⁻¹
DEE1 10D	Car de di in	0.10/100/	Oless had	• 150 x 16mm, 1 meter cable with BNC
3551-10D	Conductivity probe	0.1µS/cm-10mS/cm	Glass body	Integrated temperature sensor IDC7 weterproof
3014081712	 Low conductivity water (DI) 	0 to 60 °C		IP67 waterproof Platinum / Platinum Black cell
		No.		,
	The suitable	LAQUA		• Cell constant K=0.1 cm ⁻¹
2552 10D	Conductivity	10.110/200 1.0/200	Class had	175 x 23mm, 1 meter cable with BNC Integrated temperature sensor.
3553-10D	Conductivity probe	10 μS/cm - 1 S/cm	Glass body	Integrated temperature sensor IDS7 waterproof
3014081714	High conductivity water	0 to 60 °C		IP67 waterproof Pletinum / Pletinum Pleak cell
		LAQUA		Platinum / Platinum Black cell Call constant K
		,		Cell constant K=10.0 cm ⁻¹ 175 x 29mm 1 mater cable with RNC
Model ———	OPP alastrada	-Donge	Motoriel	• 175 x 28mm, 1 meter cable with BNC
Model	ORP electrode	Range	Material	Features
9300-10D	ORP electrode	0 to 60 °C	Glass body	Integrated temperature sensor ID67 waterproof
3014046710	General purpose			• IP67 waterproof
		140114		Platinum glass electrode
		LAQUA	•	• flat tip allows for small volume samples
				 150 x 12mm, 1 meter cable with BNC

Find out more about our other electrodes at www.horiba-water.com

Premium LAQUA Calibration Solutions

Easy 4-step calibration with no contamination of the solution!!



Step 1: Prepare the electrode and open the standard solution



Step 2: Gently squeeze the bottle to fill the calibration chamber



Step 3: Insert the electrode into the calibration chamber of the



Step 4: Dispose off the used solution from the calibration chamber.







bottle.		with standard solution. standard solution bottle.		
	pH Buffer Solutions			
Part No.	Model	Description		
1300045600	250-PH-4	pH 4,01, 250 ml *, NIST Traceable with certificate, accuracy ± 0,01 at 25°C		
1300045607	250-PH-7	pH 7,00, 250 ml *, NIST Traceable with certificate, accuracy ± 0,01 at 25°C		
1300045604	250-PH-10	pH 10,01, 250 ml *, NIST Traceable with certificate, accuracy ± 0,02 at 25°C		
1300045602	500-PH-4	pH 4,01, 500 ml *, NIST Traceable with certificate, accuracy ± 0,01 at 25°C		
1300045608	500-PH-7	pH 7,00, 500 ml *, NIST Traceable with certificate, accuracy ± 0,01 at 25°C		
1300045605	500-PH-10	pH 10,01, 500 ml *, NIST Traceable with certificate, accuracy \pm 0,02 at 25°C		
1300045599	1000-PH-4	pH 4,01, 1 ltr * , NIST Traceable with certificate, accuracy \pm 0,01 at 25°C		
1300045606	1000-PH-7	pH 7,00, 1 ltr *, NIST Traceable with certificate, accuracy ± 0,01 at 25°C		
1300045603	1000-PH-10	pH 10,01, 1 ltr *, NIST Traceable with certificate, accuracy ± 0,02 at 25°C		
		ORP / Redox Standard Solutions		
1300045637	250-ORP-200	200 mV Redox/ORP solution, 250 ml round bottle, accuracy ± 5mV / 25°C		
1300045636	250-ORP-475	475 mV Redox/ORP solution, accuracy ± 5mV / 25°C, 250 ml *		
1300045635	500-ORP-475	475 mV Redox/ORP solution, 500 ml *, accuracy ± 5mV at 25°C		
1300045634	500-ORP-650	650 mV Redox/ORP solution, 500 ml *, accuracy ± 5mV at 25°C		
		Conductivity Standard Solutions		
1300045609	250-EC-84	84 uS/cm, 250 ml * with certificate, accuracy±1%, KCl		
1300045632	500-EC-84	84 uS/cm, 500 ml * with certificate, accuracy±1%, KCl		
1300045633	1000-EC-84	84 uS/cm, 1 ltr * with certificate, accuracy±1%, KCl		
1300051602	250-EC-147	147 uS/cm, 250 ml * with certificate, accuracy±1%, KCl		
1300045595	250-EC-1413	1,413 uS/cm, 250 ml * with certificate, accuracy±1%, (25°C)=0.01M KCl		
1300045638	500-EC-1413	1,413 uS/cm, 500 ml * with certificate, accuracy±1%, (25°C)=0.01M KCl		
1300045591	1000-EC-1413	1,413 uS/cm, 1 ltr * with certificate, accuracy±1%, (25°C)=0.01M KCl		
1300045590	250-EC-1288	12,88 mS/cm, 250 ml * with certificate, accuracy ±1%, (25°C)=0.1M KCl		
1300045639	500-EC-1288	12,88 mS/cm, 500 ml * with certificate, accuracy ±1%, (25°C)=0.1M KCl		
1300045588	1000-EC-1288	12,88 mS/cm, 1 ltr * with certificate, accuracy ±1%, (25°C)=0.1M KCl		
1300045630	250-EC-1118	111,8 mS/cm, 250 ml * with certificate, accuracy ±1% (25°C)= 1M KCl		
1300045660	500-EC-1118	111,8 mS/cm, 500 ml * with certificate, accuracy ±1% (25°C)= 1M KCl		
1300045631	1000-EC-1118	111,8 mS/cm, 1 ltr * with certificate, accuracy ±1% (25°C)= 1M KCl		
pH Electrode Cleaining & Filling Solutions				
1300094981	250-KCL-333M	3.33M KCL Internal Filling Solution, 250ml dosing bottle for pH electrodes		
3014028653	220	Cleaner for pH Electrode (50mlx2pcs) for removing inorganic sample residues from glass electrodes and cleaning liquid junctions		
3200530494	230	Cleaning solution for removing inorganic and organic sample residues, Solution A (30ml) & Solution B (100ml)		
3200366771	250	Cleaner for pH Sensor (400ml) for removing protein containing sample residues from glass electrodes and cleaning liquid junctions		
* supplied in a dosing bottle with a certificate of analysis.				

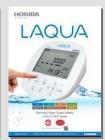
Accessories		
3014030147	Printer for GLP / GMP compliance, 230V EU version, plain paper included (printer cable is sold separately)	
3200779638	25-pin D-sub printer (RS232) cable (meter to printer), 1.5m	
3014030149	Printer paper, 20 rolls	
3200779639	PC (USB) cable (meter to PC), 1.5m; comes with free data acquisition software in USB stick	



With over 75 years of engineering excellence, HORIBA's innovative and diverse range of water quality analyzers, electrodes and solutions are ideal for everyday needs in the laboratory and field 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 bench top meters deliver the best solution for water quality analysis. The complete solution for every lab, whether it is at school, quality assurance lab or pharmaceutical industry, we have the right instrument at the right budget for you.

Consult our website or electrode brochure to select the electrode most suitable for your application.







Handheld Meters

In the field, in the lab or anywhere you need it. From easy to use, single parameter to highly sophisticated digital multi parameter to Sonde type instruments, we are able to meet your needs.

The LAQUA Handheld meters are designed for one hand use 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.







LAQUAtwin meters and Kits

Analyzing water quality is simplified when using our LAQUAtwin range of meters. An unique flat surface sensor technology enables to measure even the smallest samples.

Designed to produce accurate and reliable results. Anyone, anywhere, at any time can measure samples easily with a LAQUAtwin meter. Use the LAQUAtwin 4M carrying case to conveniently store and transport up to 7 meters, a true lab on the go. See just how good they are at our website.



Electrodes

Various electrodes to match any application. A wide range 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.



Solutions

A complete range of high quality calibration, buffer, filling and cleaning solutions is available for pH. conductivity, ORP and ion selective measurements.

Free of charge Certificates of Analysis are available on selected items.



LAQUAtwin pocket meters offer a 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

HORIBA UK YouTube

View product instruction videos, get technical tips, learn about applications and more.









Kvoto Close, Moulton Park, Northampton NN3 6FL Phone: +44 1604 642500 e-mail: waterquality@horiba.com



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