



Handheld Water Quality Meters

LAQUA act 100 Series



8715 Mesa Point Terrace San Diego, CA 92154
Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012
Email: sales@calright.com http://www.calright.com

LAQUAact

In the lab, in the field or anywhere you need it

100 Series Water Quality Instruments



Shock-resistant

Polycarbonate resin* used in automobiles and mobile phones has been adopted to enhance shock resistance.

*It has about twice the shock resistance of conventional ABS resin.



Easy to carry

The compact and ergonomic design is easy to carry and includes an electrode hook attachment that allows up to 2 electrodes to be attached on either side of the meter.



Waterproof and dustproof

IP67 rated waterproof and dustproof casing. *IP67: Fully waterproof for approximately 30 minutes in 1 meter of water.



Rugged carry-case

Moulded carry-case houses meter as well as the sensors, calibrating solutions, manuals, and batteries. Convenient for field measurement and safe storage place for meter and accessories



- pH range 0 to 14
- Temp range 0 to 60°C
- Porous sintered polyethylene liquid junction
- With integrated temperature sensor
- Waterproof, Lead-free glass
- 1m cable with BNC & phono jack connectors



Extended operation

Uses about 10% of the power compared to conventional meters. With up to 1000 hrs of use, long periods of field work is possible.



MEAS









One hand operation

Slim body fits in your hand. Only three basic operation buttons for one-hand operability.



Auto Hold or Auto-Stable functions

- In auto hold mode, meter freezes LCD when readings are stable
- Auto-stable mode continuously refreshes readings on LCD with stability indicator



Large LCD screen

- Large 64mm by 52mm screen allows for clear view of readings, diagnostic messages
- Backlight available in selected models

Visible LCD in dark places

Backlight allows reading of measured values even in the dark.

Dual-display screen (PH 130, PC 110 & PD 110)

- Dual channel meters feature dual display screen
- Simultaneous independent measurements of both channels
- Independent setup for each channel

TDS calibration curves

TDS models include predetermined standard curves for more accurate TDS readings across the measurement range. For convenience, calibration is only performed in EC mode.

Application	Environmental	Boiler water, HVAC	Aquaculture, pickling	
Key chemical species	EN standard for environmental water	Na ₂ SO ₄ , NaHCO ₃ , NaCl	NaCl	
	EN27888 curve	442 (Myron) curve	NaCl curve	
TDS selection	12000 10000	90000 80000 70000 60000 60000 10000 10000 10000 10000 10000 10000 10000 10000 10000	300 250 250 100 1000 2000 3000 NaCl / mM	



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Dissolved Oxygen Meters DO 120 DO 110

Model	DO 110 DO / Temp (°C)	DO 120 DO / Temp (°C)
Dissolved Oxygen range	0.0 to 20.00 mg/l 0.0 to 200.0%	0.0 to 20.00 mg/l 0.0 to 200.0%
Resolution	0.01 mg/l or 0.1%	0.01 mg/l or 0.1%
Accuracy	±0.1 mg/l	±0.1 mg/l
Salinity compensation	0 to 40 ppt	0 to 40 ppt
Barometric pressure compensation	Yes	Yes
DO Probe type	Galvanic with integrated temperature sensor	Galvanic with integrated temperature sensor
Calibration	1 or 2 points	1 or 2 points
Temperature range	-30.0 °C to 130 °C	-30.0 °C to 130 °C
Resolution	0.1 °C	0.1 °C
Accuracy	±0.4°C	±0.4 °C
Memory	100	1000
Auto Data-logging	_	Yes
Real time clock	_	Yes
Date / time stamping	_	Yes
Auto Shut-off	Yes (programmable: 1 to 30 mins)	Yes (programmable: 1 to 30 mins)
Auto-Hold / Stability	Yes	Yes
Diagnostic messages	Yes	Yes
Display	Custom LCD	Custom LCD with backlight
Inputs	BNC, phono, DC sockets	BNC, phono, DC sockets
Outputs	_	RS232C
IP rating	IP67, shock resistant	IP67, shock resistant
Power requirements	2 x 'AAA' or LR03 or Ni-MH rechargeable batteries or power adaptor	2 x 'AAA' or LR03 or Ni-MH rechargeable batteries or power adaptor

Kit includes:

Battery life

DO110-K Waterproof Dissolved Oxygen meter (3999960172)

> 500 hrs

D0110 meter
 9551-20D Galvanic D0 probe, 2m cable

D0120-K Waterproof Dissoled Oxygen data meter (3999960173)

> 500 hrs

D0120 meter
9551-20D Galvanic D0 probe, 2m cable

carry case



pH Solution Kits							
Name Type Specification				Part No.			
NIST pH Buffer Solution Kit	501-S	(4.01/6.86/9.18/3.33M KCI)	250ml ea	3999960015			
USA pH Buffer Solution Kit	502-S	(4.01/7.00/10.01/3.33M KCI)	250ml ea	3999960016			

pH Solutions							
Name	Name Type Specification			Part No.			
	500-2	pH 1.68	500ml	3999960028			
	500-4	pH 4.01	500ml	3999960029			
Buffer Solution at 25°C	500-686	pH 6.86	500ml	3999960030			
	500-7	pH 7.00	500ml	3999960031			
	500-9	pH 9.18	500ml	3999960032			
	500-10	pH 10.01	500ml	3999960033			
	500-12	pH 12.46	500ml	3999960034			

Name	Туре	Specification	Volume	Part No.		
	500-2	pH 1.68	500ml	3999960028		
	500-4	pH 4.01	500ml	3999960029		
	500-686	pH 6.86	500ml	3999960030		
Buffer Solution at 25°C	500-7	pH 7.00	500ml	3999960031		
	500-9	pH 9.18	500ml	3999960032		
	500-10	pH 10.01	500ml	3999960033		
	500-12	pH 12.46	500ml	3999960034		
On advertisity Coloring IV						

Conductivity Solution Kit						
Name	Type	Specification	Volume	Part No.		
Conductivity Standard Solution Kit	503-S	(84 uS/cm; 1413 uS/cm; 12.88 mS/cm; 111.8 mS/cm)	250ml ea	3999960017		

Conductivity Solutions							
Name	Type	Specification	Volume	Part No.			
	500-21	84 uS/cm	500ml	3999960035			
Conductivity Standard	500-22	1413 uS/cm	500ml	3999960036			
Solution at 25°C	500-23	12.88 mS/cm	500ml	3999960037			
	500-24	111.8 mS/cm	500ml	3999960038			



Electrode Cleaning Solutions

 For removing inorganic sample residues from glass electrodes, and for cleaning liquid junctions

Name	Type	Volume (ml)	Part No.
Cleaning Solution	220	50 x 2 pcs	3014028653

For removing protein containing sample residues from glass electrodes, and for cleaning liquid junctions.

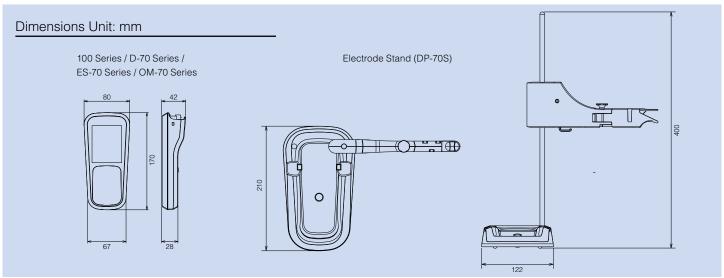
Name	Type	Volume (ml)	Part No.
Cleaning Solution	250	400	3200366771

Accessories					
Name	Description	Part No.			
Printer (for GLP / GMP compliance)	US version 120V (does not include printer cable)	3014030146			
Trinter (for der 7 divil compliance)	EU version 230V (does not include printer cable)	3014030147			
Printer cable	1.5 m	3014030148			
Printer paper	20 rolls	3014030149			
Ink ribbon	5 pcs/set	3014030150			
Universal AC adapter	Multi-voltage (100-240V) with 6 plugs,1.5m cable	3200647413			
Digital simulator X-51	pH, mV, Ion, DO, temperature simulator	3014028368			
Digital simulator X-52	Conductivity, temperature simulator	3014028370			
Serial cable	Cable to connect meter and PC (Serial, 9 pins)	3014030151			
Electrode hook	With function for winding the cable	3200528475			
DP-70S Electrode stand (adjustable type)	With holder for D/ES/OM-70 / 100 Series	3200528474			



Electrodes*					
Name	Description	Part No.			
9651-10D	Plastic-body, gel-filled pH electrode with integrated temperature sensor	3200642020			
9382-10D	Plastic-body, k=1.0 Titanium / Platinum black conductivity cell with integrated temperature sensor	3014046709			
9551-20D	Galvanic DO probe with integrated temperature sensor and 2m cable	3014047090			

*Electrodes carry a 6-month warranty against manufacturing defects only





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.





Electrodes

HORIBA's superior electrode technology has been employed in manufacturing our unparalleled tough pH glass bulbs and unique flat sensors. Our electrodes have different designs to cater a wide range of applications—from pure water to complex samples. Select the suitable electrode that is specially designed for your application.



Bench 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.



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.





LAQUAtwin pocket meters offer quick and convenient alternative to analyze important parameters with high accuracy. Several application notes are available at (http://goo.gl/znwE6i) detailing the use of LAQUAtwin and the results achieved for the respective applications. Additional application notes will be added when available.

SUPPORT HORIBA CUSTOMER SUPPORT SYSTEM

HORIBA offers a variety of services to conform to quality standards and international guidelines such as GLP, GMP and ISO

Technical Support

Please contact us with any technical questions about our products.

www.horiba.com/wg/support

User Support

Our support website is available for registered customers and features:

- Data collection software
- Instruction manual downloads
- Measurement tips, etc.

www.horiba.co.jp/register

Validation Support

Please contact us with any questions or requirements for your validation procedure.

- Traceability certification*
- IQ/OQ/PQ support* SOP guidance
- FAQ

*Optional services

