



Handheld Water Quality Meters

LAQUAact 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. *Polycarbonate resin 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, batteries.

Convenient for field measurement and safe storage place for meter and accessories

9651-10D plastic body gel-filled electrode

- pH range 0 to 14
- Temp range 0 to 80°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

DATA







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



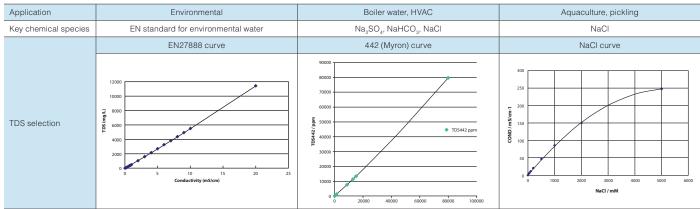
Backlight allows reading of measured values even in the dark.

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.





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Multi-Parameter Meters



		CONTRACTOR OF THE PARTY OF THE
Models	PC 110	PD 110
	Dual Channel pH/ORP/ EC/TDS/Res/Sal/Temp (°C)	Dual Channel pH/ORP/ DO/Temp (°C)
oH range	-2.00 to 16.00 pH	-2.00 to 16.00 pH
Resolution	0.01 pH	0.01 pH
Accuracy Cal points	±0.01 pH 5	±0.01 pH
Buffer options	USA, NIST, Custom	USA, NIST, Custom
,		
ORP range	±2000 mV	±2000 mV
Resolution	1 mV ±1 mV or 0.2% of reading	1 mV ±1 mV or 0.2% of reading
Accuracy	(whichever is greater)	(whichever is greater)
Dissolved Oxygen	_	0.00 to 20.00 mg/L
range		0.0 to 200.0%
Resolution		0.01 mg/L or 0.1%
Accuracy Salinity compensation		±0.1 mg/L 0.0 to 40.0 ppt
Barometric pressure	_	
compensation	_	Yes
DO Probe type	_	Galvanic with integrated temperature sensor
Calibration		1 or 2 points
C range	μS/cm to 200.0 mS/cm (K=1.0) 0.05% F.S.	_
Resolution	±0.6% F.S.:	_
Accuracy	±1.5% F.S. > 18.0 mS/cm	_
Ref. temp.	15 to 30 °C (adjustable)	_
Temp. compensation	0.00 to 10.00% (adjustable)	_
Cell constants	0.1 / 1.0 / 10.0	_
Cal points	4 points (Auto/Manual) Auto ranging / Manual	_
Units setting	μS/cm or mS/cm or S/m	_
DS range	mg/L to 100 g/L (TDS factor = 0.5)	_
Resolution	0.01 mg/L	_
Accuracy	±0.1% F.S.	_
TDS curves	EN27888, 442, Linear (0.40 to 1.0), NaCl	_
Resistivity Range	0.000 kΩ•cm to 20.00 MΩ•cm	_
Resolution	0.05% F.S. ±0.6% F.S.	_
Accuracy	±0.0 % 1.3. ±1.5% F.S. > 1.80 MΩ•cm	_
Salinity	0.0 to 100.0 ppt	_
	0.00 to 10.00 %	_
Resolution	0.1 ppt / 0.01%	_
Accuracy Cal curves	±0.2% F.S. NaCl / Sea water	_
emperature Range	-30.0 °C to 130 °C	_
Resolution	0.1 °C	_
Accuracy	±0.4 °C	_
Memory	1000	1000
Auto Data-logging	Yes	Yes
Real time clock	Yes	Yes
Date / time stamping Auto Shut-off	Yes Yes (programmable: 1 to 30 mins)	Yes (programmable: 1 to 30 mins)
Auto-Hold / Stability	Yes	Yes
Offset display	Yes	Yes
Slope display	Yes (independent acid and alkaline slopes depending on calibration)	Yes (independent acid and alkaline slopes depending on calibration)
Cal Alarm	Yes	Yes
	(programmable: 1 to 400 days)	(programmable: 1 to 400 days)
Electrode status	On screen display Yes	On screen display Yes
Diagnostic messages Display	Custom LCD with backlight, Dual channel	Custom LCD with backlight, Dual channel
Inputs	Dual BNC, phono, DC sockets	Dual BNC, phono, DC sockets
Outputs	RS232C	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 adap
Battery life	> 200 hrs	> 500 hrs
Kit* includes:	PC110-K Waterproof pH/ORP/EC/TDS/Res/Sal handheld data meter (3999960174) • PC110 meter • 9651-10D plastic gel-filled pH electrode • 9382-10D plastic-body, Titanium/Platinum black, conductivity cell, k=1.0	PD110-K Waterproof pH/ORP/D0 handheld data meter (3999960175) • PD110 meter • 9651-10D plastic gel-filled pH electrode • 9551-20D Galvanic D0 probe, 2m cable
	 pH 4.01, pH7.00, 1413 uS/cm, 12.88 mS/cm solutions (60ml) carry case 	pH 4.01, 7.00, 10.01 solutions (60ml) carry case



pH Solution Kits						
Name	Type	Specification	Volume	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	Type	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		

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	Name Type Specification Volume Par					
	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.

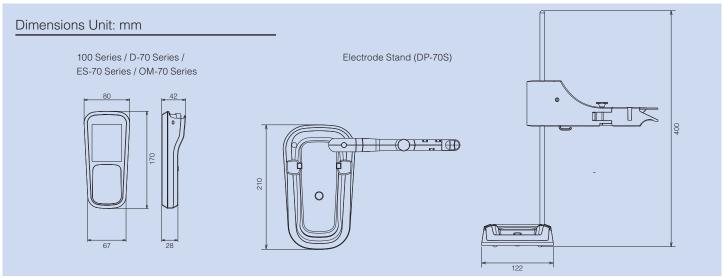
Name	Туре	Volume (ml)	Part No.
Cleaning Solution	250	400	3200366771

Accessories					
Name	Description	Part No.			
Printer (for GLP / GMP compliance)	US version 120V (does not include printer cable)	3014030146			
Thinter (tor GET / Givil 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 conductivity cell, Titanium / Platinum black, 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





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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.



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.



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.





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.

