

# 



pH ORP Ion Conductivity
Resistivity TDS DO Salinity

Handheld Water Quality Meters

LAQUAact 100 Series





www.horiba-laqua.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.

CAL

MEAS

DATA



(7)



#### 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

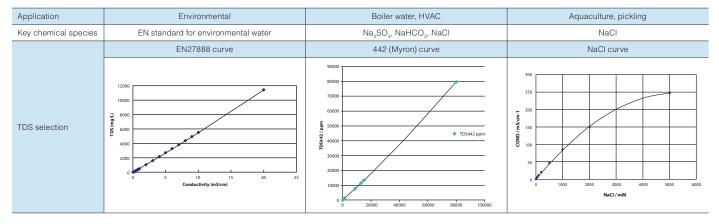
Backlight allows reading of measured values even in the dark.

#### 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.



### pH Meters



		2012-12-20	
Model	PH 110	PH 120	PH 130
	pH/ORP/Temp (°C)	pH/ORP/Temp (°C)	Dual Channel pH/ORP/lon/Temp (°C)
pH range	-2.00 to 16.00 pH	-2.00 to 16.00 pH	-2.00 to 16.00 pH
Resolution	0.01 pH	0.01 pH	0.01 pH
Accuracy	±0.01 pH	±0.01 pH	±0.01 pH
Cal points	5	5	5
Buffer options	USA, NIST	USA, NIST, Custom	USA, NIST, Custom
ORP range	±2000 mV	±2000 mV	±2000 mV
Resolution	1 mV	1 mV	1 mV
Accuracy	±1 mV or 1% of reading (whichever is greater)	±1 mV or 1% of reading (whichever is greater)	±1 mV or 0.2% of reading (whichever is greater)
lon range	_	_	0.000 μg/L to 1999 g/L
Resolution	_	_	4 significant digits
Accuracy	_	_	±0.8% full scale
Cal points	_	_	Up to 5
Temperature range	-30.0 °C to 130 °C	-30.0 °C to 130 °C	-30.0 °C to 130 °C
Resolution	0.1 °C	0.1 °C	0.1 °C
Accuracy	±0.4 °C	±0.4 °C	±0.4 °C
Cal option	Yes	Yes	Yes
Memory	100	1000	1000
Auto Data-logging	_	Yes	Yes
Real time clock	_	Yes	Yes
Date/time	_	Yes	Yes
stamping Auto Shut-off	Yes (programmable: 1 to 30 mins)	Yes (programmable: 1 to 30 mins)	Yes (programmable: 1 to 30 mins)
Auto-Hold	Yes	Yes	Yes
Averaging/ Stability	Yes, Automatic	Yes, Automatic	Yes, Automatic
Offset display	Yes	Yes	Yes
Slope display	Yes (independent acid and alkaline slopes depending on calibration)	Yes (independent acid and alkaline slopes depending on calibration)	Yes (independent acid and alkaline slopes depending on calibration)
Cal Alarm	_	Yes (programmable: 1 to 400 days)	Yes (programmable: 1 to 400 days)
Electrode status	On screen display	On screen display	On screen display
Diagnostic messages	Yes	Yes	Yes
Display	Custom LCD	Custom LCD with backlight	Custom LCD with backlight
Inputs	BNC, phono, DC sockets	BNC, phono, DC sockets	2 x BNC, 2 x phono, DC sockets
Outputs	_	RS232C	RS232C
IP rating	IP67, shock resistant	IP67, shock resistant	IP67, shock resistant
Power	2 x 'AAA' or LR03 or Ni-MH rechargeable	2 x 'AAA' or LR03 or Ni-MH rechargeable	2 x 'AAA' or LR03 or Ni-MH rechargeable
requirements  Battery life	batteries or power adaptor > 1000 hrs	batteries or power adaptor > 1000 hrs	batteries or power adaptor > 500 hrs
Dattory inc	1 2 1000 1110	1 7 1000 1110	) 500 iii
Kit* includes:	PH110-K Waterproof pH/ORP handheld meter (3999960167)  • PH110 meter  • 9651-10D plastic-body, gel-filled pH electrode  • pH 4.01, 7.00, 10.01 solutions (60ml)  • carry case	PH120-K Waterproof pH/ORP handheld data meter (3999960168)  • PH120 meter  • 9651-10D plastic-body, gel-filled pH electrode  • pH 4.01, 7.00, 10.01 solutions (60ml)  • carry case	PH130-K Waterproof pH/ORP/Ion handheld data meter (3999960169) PH130 meter 9651-10D plastic-body, gel-filled pH electrode pH 4.01, 7.00, 10.01 solutions (60ml) carry case

 $<sup>{}^{\</sup>star}\text{Kit with NIST buffers set is available upon request. Add 'N' suffix to order code when ordering}$ 



#### **Conductivity Meters**



	F(*110)	EC 120
Model	EC 110  EC/TDS/Res/Temp (°C)	EC/TDS/Res/Sal/Temp (°C)
EC range	μS/cm to 200.0 mS/cm (k=1.0)	μS/cm to 200.0 mS/cm (k=1.0)
Resolution	0.05% F.S.	0.05% F.S.
Accuracy	±0.6% F.S.;	±0.6% F.S.;
Ref. temp.	±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable)	±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable)
Temp. compensation	0.00 to 10.00% (adjustable)	0.00 to 10.00% (adjustable)
Cell constants	0.1 / 1.0 / 10.0	0.1 / 1.0 / 10.0
Cal points	4 points (Auto/Manual)	4 points (Auto/Manual)
Units setting	Auto ranging / Manual	Auto ranging / Manual
	μS/cm or mS/cm or S/m	μS/cm or mS/cm or S/m
TDS range	mg/L to 100 g/L (TDS factor = 0.5)	mg/L to 100 g/L (TDS factor = 0.5)
Resolution	0.01 mg/L	0.01 mg/L
Accuracy	±0.1% F.S.	±0.1% F.S.
TDS curves	EN27888, 442, Linear (0.40 to 1.0), NaCl	EN27888, 442, Linear (0.40 to 1.0), NaCl
Resistivity Range	0.000 kΩ•cm to 20.00 MΩ•cm	0.000 kΩ∙cm to 20.00 MΩ∙cm
Resolution	0.05% F.S.	0.05% F.S.
Accuracy	±0.6% F.S. ±1.5% F.S. > 1.80 MΩ∙cm	±0.6% F.S. ±1.5% F.S. > 1.80 MΩ•cm
	±1.3 /61.3. > 1.00 MX2*CIII	£1.5/61.5. > 1.00 WIZ-011
Salinity	_	0.0 to 100.0 ppt
Resolution	_	0.00 to 10.00 % 0.1 ppt / 0.01%
Accuracy	_	±0.2% F.S.
Cal curves	_	NaCl / Sea water
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-loggiing	_	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
Battery life	> 200 hrs	> 200 hrs

Kit includes:

EC110-K Waterproof EC/TDS/Res handheld meter (3999960170)

- EC110 meter
- 9382-100 plastic-body, Titanium/Platinum black, conductivity cell, k=1.0
   84uS/cm, 1413 uS/cm, 12.88 mS/cm, 111.8 mS/cm solutions (60ml)

• carry case

EC120-K Waterproof EC/TDS/Res/Sal handheld data meter (3999960171)

- EC120 meter
   9382-10D plastic-body, Titanium/Platinum black, conductivity cell, k=1.0
   84uS/cm, 1413 uS/cm, 12.88 mS/cm, 111.8 mS/cm solutions (60ml)
- carry case

#### Dissolved Oxygen Meters



Model	DO 110	DO 120			
	DO / Temp (°C)	DO / Temp (°C)			
Dissolved Oxygen range	0.00 to 20.00 mg/L 0.0 to 200.0%	0.00 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	0.0 to 40.0 ppt	0.0 to 40.0 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			
Battery life	> 500 hrs	> 500 hrs			

Kit includes:

D0110-K Waterproof Dissolved Oxygen meter (3999960172)

D0110 meter

9551-20D Galvanic D0 probe, 2m cable

carry case

D0120-K Waterproof Dissoled Oxygen data meter (3999960173)

D0120-K Waterproof Dissoled Oxygen data meter (3999960173)

D0120-K Waterproof Dissoled Oxygen data meter (3999960173)

c D0120-K Waterproof Dissoled Oxygen data meter (3999960173)

c D0120-K Waterproof Dissoled Oxygen data meter (3999960173)

c D0120-K Waterproof Dissoled Oxygen data meter (3999960173)



#### **Multi-Parameter Meters**



PC 110  Dual Channel pH/ORP/ EC/TDS/Res/Sal/Temp (°C)  -2.00 to 16.00 pH  0.01 pH  ±0.01 pH  5  USA, NIST, Custom  ±2000 mV  1 mV  ±1 mV or 0.2% of reading (whichever is greater)  — — — — — — — … µS/cm to 200.0 mS/cm (K=1.0) 0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable) 0.1/ 1.0 / 10.0	PD 110  Dual Channel pH/ORP/ DO/Temp (°C)  -2.00 to 16.00 pH  0.01 pH  ±0.01 pH  5  USA, NIST, Custom   ±2000 mV  1 mV  ±1 mV or 0.2% of reading (whichever is greater)  0.00 to 20.00 mg/L  0.0 to 200.0%  0.01 mg/L or 0.1%  ±0.1 mg/L  0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor  1 or 2 points  — —
-2.00 to 16.00 pH  0.01 pH  ±0.01 pH  5  USA, NIST, Custom  ±2000 mV  1 mV  ±1 mV or 0.2% of reading (whichever is greater)	-2.00 to 16.00 pH  0.01 pH  ±0.01 pH  5  USA, NIST, Custom   ±2000 mV  1 mV  ±1 mV or 0.2% of reading (whichever is greater)  0.00 to 20.00 mg/L 0.0 to 20.0.0%  0.01 mg/L or 0.1%  ±0.1 mg/L  0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
0.01 pH ±0.01 pH 5 USA, NIST, Custom  ±2000 mV 1 mV ±1 mV or 0.2% of reading (whichever is greater)  — — — — — — — … µS/cm to 200.0 mS/cm (K=1.0) 0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	0.01 pH  ±0.01 pH  5  USA, NIST, Custom   ±2000 mV  1 mV  ±1 mV or 0.2% of reading (whichever is greater)  0.00 to 20.00 mg/L 0.0 to 200.0%  0.01 mg/L or 0.1%  ±0.1 mg/L  0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
±0.01 pH 5 USA, NIST, Custom  ±2000 mV 1 mV ±1 mV or 0.2% of reading (whichever is greater)  — — — — — — — — … µS/cm to 200.0 mS/cm (K=1.0) 0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	±0.01 pH 5 USA, NIST, Custom   ±2000 mV 1 mV  ±1 mV or 0.2% of reading (whichever is greater) 0.00 to 20.00 mg/L 0.0 to 200.0% 0.01 mg/L or 0.1% ±0.1 mg/L 0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
5 USA, NIST, Custom  ±2000 mV 1 mV ±1 mV or 0.2% of reading (whichever is greater)  — — — — — μS/cm to 200.0 mS/cm (K=1.0) 0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	5 USA, NIST, Custom  ±2000 mV 1 mV ±1 mV or 0.2% of reading (whichever is greater) 0.00 to 20.00 mg/L 0.0 to 200.0% 0.01 mg/L or 0.1% ±0.1 mg/L 0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
USA, NIST, Custom  ±2000 mV  1 mV  ±1 mV or 0.2% of reading (whichever is greater)  — — — — — — — μS/cm to 200.0 mS/cm (K=1.0) 0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	USA, NIST, Custom  ±2000 mV  1 mV  ±1 mV or 0.2% of reading (whichever is greater)  0.00 to 20.00 mg/L  0.0 to 200.0%  0.01 mg/L or 0.1%  ±0.1 mg/L  0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
±2000 mV  1 mV  ±1 mV or 0.2% of reading (whichever is greater)  — — — — — — — μS/cm to 200.0 mS/cm (K=1.0) 0.05% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	#2000 mV  1 mV  #1 mV or 0.2% of reading (whichever is greater)  0.00 to 20.00 mg/L  0.0 to 200.0%  0.01 mg/L or 0.1%  #0.1 mg/L  0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
1 mV  ±1 mV or 0.2% of reading (whichever is greater)  — — — — — — μS/cm to 200.0 mS/cm (K=1.0) 0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	1 mV  ±1 mV or 0.2% of reading (whichever is greater)  0.00 to 20.00 mg/L 0.0 to 200.0%  0.01 mg/L or 0.1% ±0.1 mg/L 0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
±1 mV or 0.2% of reading (whichever is greater)  — — — — — — — μS/cm to 200.0 mS/cm (K=1.0) 0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	±1 mV or 0.2% of reading (whichever is greater) 0.00 to 20.00 mg/L 0.0 to 200.0% 0.01 mg/L or 0.1% ±0.1 mg/L 0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
(whichever is greater)	(whichever is greater)  0.00 to 20.00 mg/L  0.0 to 200.0%  0.01 mg/L or 0.1%  ±0.1 mg/L  0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
— — — — — — — — — — — — — — — — — — —	0.00 to 20.00 mg/L 0.0 to 200.0% 0.01 mg/L or 0.1% ±0.1 mg/L 0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
— — — μS/cm to 200.0 mS/cm (K=1.0) 0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	0.0 to 200.0% 0.01 mg/L or 0.1% ±0.1 mg/L 0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
— — — μS/cm to 200.0 mS/cm (K=1.0) 0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	0.01 mg/L or 0.1% ±0.1 mg/L 0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	±0.1 mg/L 0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	0.0 to 40.0 ppt  Yes  Galvanic with integrated temperature sensor
0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	Yes Galvanic with integrated temperature sensor
0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	Galvanic with integrated temperature sensor
0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	
0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	1 or 2 points — — — —
0.05% F.S. ±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	— — —
±0.6% F.S.; ±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	
±1.5% F.S. > 18.0 mS/cm 15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	_
15 to 30 °C (adjustable) 0.00 to 10.00% (adjustable)	
0.00 to 10.00% (adjustable)	_
4 points (Auto/Manual)	<del>_</del>
Auto ranging / Manual	_
µS/cm or mS/cm or S/m	_
mg/L to 100 g/L (TDS factor = 0.5)	_
0.01 mg/L	_
±0.1% F.S.	_
EN27888, 442, Linear (0.40 to 1.0), NaCl	_
0.000 kΩ•cm to 20.00 MΩ•cm	_
	_
±0.6% F.S.	_
0.0 to 100.0 ppt	
0.00 to 10.00 %	_
	_
	_
	_
	_
	_
	1000
	1000 Yes
* *	Yes
	Yes
	Yes (programmable: 1 to 30 mins)
11 0	Yes
	Yes
Yes (independent acid and alkaline slopes depending on	Yes (independent acid and alkaline slopes depending on
calibration) Yes	calibration) Yes
(programmable: 1 to 400 days)	(programmable: 1 to 400 days)
	On screen display
	Yes
	Custom LCD with backlight, Dual channel
	Dual BNC, phono, DC sockets
	R\$232C
	IP67, shock resistant
<u> </u>	2 x 'AAA' or LR03 or Ni-MH rechargeable batteries or power adapt
	> 500 hrs
PC110-K Waterproof pH/ORP/EC/TDS/Res/Sal handheld data meter (3999960174)  PC110 meter	PD110-K Waterproof pH/ORP/DO handheld data meter (3999960175)  • PD110 meter  • 9651-10D plastic gel-filled pH electrode
)(	0.05% F.S.

<sup>\*</sup>Kit with NIST buffers set is available upon request. Add 'N' suffix to order code when ordering

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	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			

	500-12	pH 12.46	500ml	3999960034		
Conductivity Solution Kit						
Name	Туре	Specification	Volume	Part No.		
Conductivity Standard Solution Kit 50		(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 3999960	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	Туре	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.

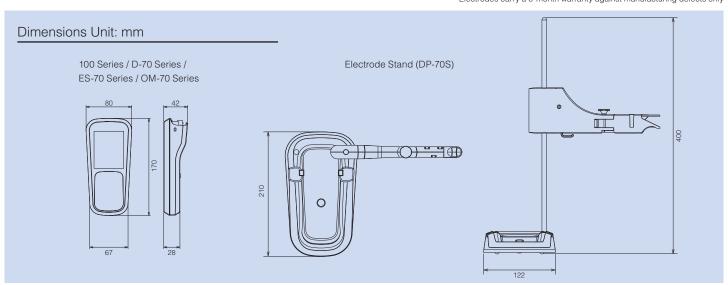
Name	Type	Volume (ml)	Part No.
Cleaning Solution	250	400	3200366771

Accessories					
Name	Description	Part No.			
Printer (for GLP / GMP compliance)	US version 120V (does not include printer cable)	3014030146			
Trinter (for 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



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.













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