

HORIBA

LAQUA

LAQUA 200 Series Handheld Water Quality Meters



pH	ORP	Dissolved Oxygen	Conductivity
Resistivity	Salinity	Total Dissolved Solids	Turbidity



www.horiba-laqua.com

Explore the future

HORIBA

LAQUA 200 Series

Handheld Water Quality Meters



Scan code to view LAQUA 200 Series feature video online



Eco-Friendly, Shock & Scratch Resistant & Non-slip

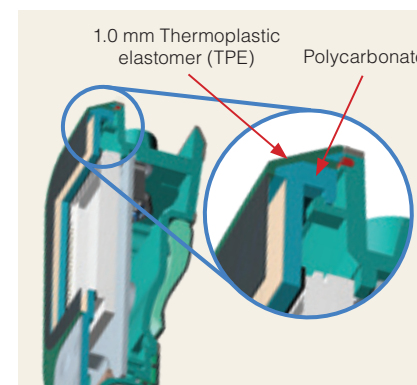
Apart from their high impact strength, the polycarbonate and TPE materials are also long-lasting and recyclable. The TPE provides non-slip grip and is not easily damaged by abrasion.



Built-in Electrode Holder

Two grooves on the meter serve as electrode holders.

Electrode adapter provides secure attachment for two electrodes so they can be easily placed in solutions.



Ergonomic Design

The black meter housing is made of polycarbonate material covered with a layer of TPE material. It is lightweight, comfortable to touch, and suitable for field applications.

< Meter shown in actual size



Backlit, Large LCD Screen

All models have scratch-resistant monochrome digital LCD with white LED backlight for easy viewing of readings even in dark locations.



High Battery Capacity

AA batteries have greater power capacity than AAA batteries. Battery life is increased by 2.5x.



Integrated Foldable Meter Stand

A collapsible meter stand is integrated at the back of the meter for convenient usage and storage.



IP67 Waterproof and Dustproof

Fully protected from dust and capable of withstanding water immersion up to 1 meter depth for 30 mins.¹

¹ With electrodes connected and communication port sealed



9-Button Keypad Minimal Matrix

Operation buttons are reduced to the bare minimum.



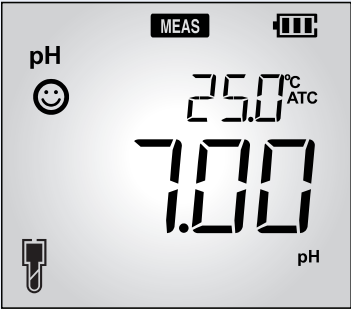
PC / Printer Communications

The 220 models are GLP-compliant, recording calibration and measurement data with date and time stamps. Connect to a PC via USB cable² to transfer data or to a HORIBA printer via RS232 cable² to print.

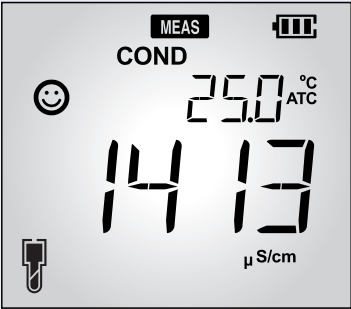
² Cables and printer are sold separately

Easy-to-Read Display

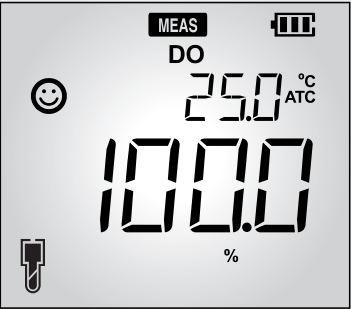
Electrode condition, reading stability, parameter, and temperature in one screen can be checked at a glance.



pH Display



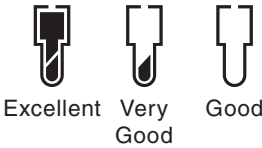
Conductivity Display



Dissolved Oxygen Display

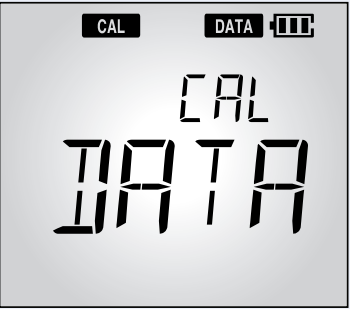
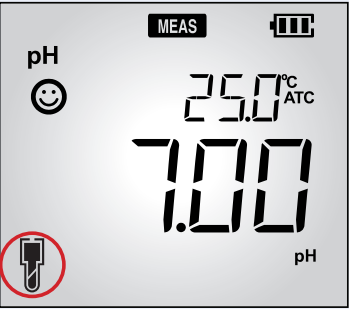
Electrode Status Indicator

The electrode icon indicates the condition of the electrode after each calibration.



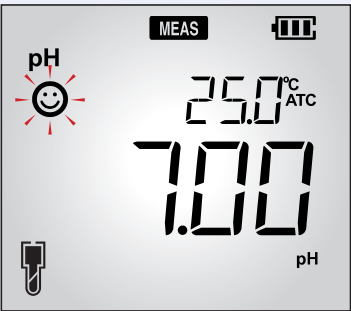
Calibration Data

Simply press CAL button and then DATA button to view the latest calibration data.

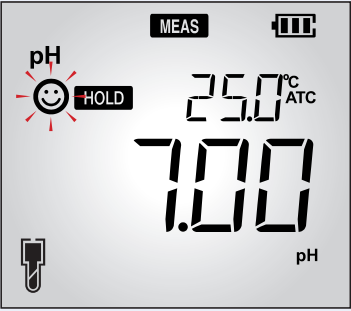


Measurement Modes: Auto Stable, Auto Hold, Real Time

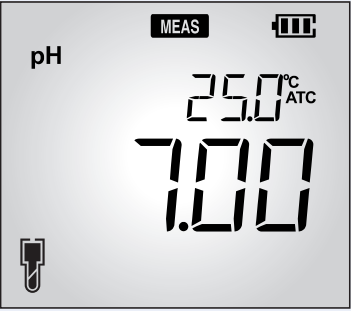
Measurement Modes	Readings	😊	HOLD
Auto Stable (AS)	Meter shows live readings	Blinks until reading is stable	Inactive
Auto Hold (AH)	Meter locks stable readings	Blinks until reading is stable	Lights up
Real Time	Meter shows live readings	Inactive	Inactive



Auto Stable



Auto Hold

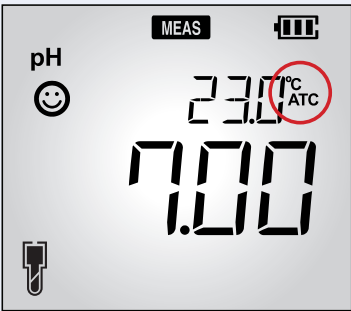


Real Time

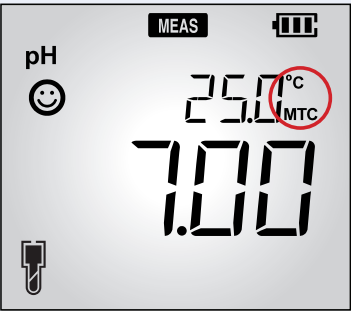


Temperature Sensor Indicator

When the temperature sensor is connected to the meter, ATC is displayed. Otherwise MTC is displayed.



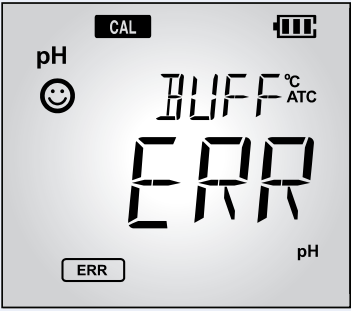
Temperature Sensor Connected



Temperature Sensor Disconnected

Diagnostic Messages

Self-diagnosing meters display measurement and meter issues for fast fault finding and troubleshooting.



Rugged Carrying Case

The durable case keeps your meter, electrodes, solutions, and accessories secured, organized, and protected during quick field testing on the go or storage.



- 1 User Manual and Notes Compartment
- 2 Clear Sleeve for Quick Guide
- 3 DO Replacement Tip
- 4 Electrode Adapter
- 5 2 x AA Batteries
- 6 Calibration Solutions
- 7 pH Electrode
- 8 Conductivity Electrode
- 9 Electrode Cable Compartment
- 10 LAQUA 200 Series Meter
- 11 DO Electrode Cable Winder (up to 5.0m)
- 12 DO Electrode

Electrodes

IP67 waterproof and dustproof

9652-10D / 20D Plastic-body, Double Junction, Gel pH Electrodes		
Model	9652-10D	9652-20D
Part No.	3200786359	3200786361
pH Range	0 - 14 pH	
Temperature Range	0 - 80 °C	
Liquid Junction	Porous sintered polyethylene	
Temperature Sensor	Integrated	
Connectors	BNC, phono	
Electrode Length & Diameter	150 x 16mm	
Cable Length	1.0 m	2.0 m

9301-10D Plastic-body, Platinum, Gel ORP Electrode	
Model	9301-10D
Part No.	3200922105
ORP Range	±2000 mV
Temperature Range	0 - 80 °C
Liquid Junction	Porous sintered polyethylene
Temperature Sensor	Integrated
Connectors	BNC, phono
Electrode Length & Diameter	110 x 16mm
Cable Length	1.0 m

9383-10D Plastic-body, Titanium / Platinum Black Conductivity Cell	
Model	9383-10D
Part No.	3200780927
Cell Constant	1 cm ⁻¹
Conductivity Range	1 µS/cm to 100 mS/cm
Temperature Range	0 - 80 °C
Temperature Sensor	Integrated
Connectors	BNC, phono
Electrode Length & Diameter	150 x 16mm
Cable Length	1.0 m

9552-20D / 50D Galvanic DO Probes		
Model	9552-20D	9552-50D
Part No.	3200780939	3200780941
DO Range	0 - 20.00 mg/L	
Temperature Range	0 - 50 °C	
Temperature Sensor	Integrated	
Connectors	BNC, phono	
Electrode Length & Diameter	165 x 30mm	
Cable Length	2.0 m	5.0 m
Replacement DO Tip / Part No.	5402 / 3200781553	

LAQUA TB220

Turbidity Meter

**ISO 7027,
DIN EN 27027
Compliant**

**Up to 4
Calibration Points**

0.02, 20, 100, 800 NTU
Styrene Divinylbenzene
(SDVB) polymer
solution standards

**Software
Upgradeable**

Large Memory

Up to 2000 data
with date and
time stamp

**PC and Printer
Compatible**



Turbidity Meter Specifications

Model	TB220
Turbidity Range	0.00 to 2000 NTU
Resolution	0.00–19.99 NTU, 20.0–199.9 NTU, 200–2000 NTU
Accuracy	0.00–1000 NTU: ±0.02 NTU or ±2%, 1001–2000 NTU: ±3%
Repeatability	±0.02 NTU or ±2%
Calibration Points	Up to 4 (0.02, 20, 100, 800 NTU)
Calibration Standards	Styrene divinylbenzene (SDVB) polymer solution
Principle	Ratiometric turbidity measurement using nephelometric light scatter and transmitted light signals
Compliance	ISO 7027, DIN EN 27027
Light Source	Infrared light emitting diode (860 nm)
Detector	Silicone photodiode
Sample Volume	10 ml
Memory	2000
Real-Time Clock	Yes
Date & Time Stamp	Yes
Auto Shut-Off	Off, 1 to 30 mins
Diagnostic Messages	Yes
Software Upgrade ¹	Yes, PC (USB) cable required
PC Communication ¹	Yes, PC (USB) cable required
Printer Communication ²	Yes, Printer (RS232) cable required
Display	Custom LCD with backlight (50 x 40 mm)
Housing	IP67 (Except for inside of sensor unit), shock & scratch resistant, non-slip
Power Requirement	4 x AA batteries
Battery Life	> 2000 measurements
Meter Dimensions	210 (L) x 110 (W) x 55 (H) mm
Meter Weight	Approx. 510 g (with batteries) / 410 g (without batteries)

Meter Kit Components



Carrying Case



Vials for sample measurement



Instruction and Quick Manuals



Turbidity SDVB Standard Solutions (10ml each)



Cloth



Silicone Oil

Ordering Information

Meter Kit	
3201073569	TB220-K TB220 Turbidity Meter Kit • TB220 Meter • 0.02, 20, 100 & 800 NTU standards (10ml each) • Silicone oil • Cloth • 4 sample vials • Carrying case • Instruction & Quick Manual

LAQUA PH210 & PH220

pH/ORP/Temperature (°C/°F) Meters



Accepts up to 6 Calibration Points

USA, NIST & DIN pH Buffer Groups

pH Buffer Group	pH Buffer Values (25° C)
USA	1.68, 4.01, 7.00, 10.01, 12.45
NIST	1.68, 4.01, 6.86, 9.18, 12.45
DIN	1.09, 3.06, 4.65, 6.79, 9.23, 12.75

Allows 1-point ORP Calibration

Shows Offset & Average Slope Data

Meter Kit Components



Carrying Case



Manual & Quick Guide



pH Buffers



9652-10D Gel pH electrode



2 X AA Batteries

pH Meters Specifications

Model	PH210	PH220
pH Range	-2.00 to 16.00 pH	
Resolution	0.01 pH	
Accuracy	±0.01 pH	
Calibration Points	USA & NIST (Up to 5), DIN (Up to 6)	
pH Buffer Groups	USA, NIST, DIN	
ORP Range	±2000 mV	
Resolution	0.1 mV (< ±1000 mV), 1 mV (≥ ±1000mV)	
Accuracy	±0.3 mV (< ±1000 mV), 0.3% of reading (≥ ±1000mV)	
Calibration Option	Yes	
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F	
Resolution	0.1 °C / °F	
Accuracy	± 0.5 °C / ± 0.9 °F	
Calibration Option	Yes	
Memory	500	1000
Auto Data Log	✓	✓
Real-time Clock	–	✓
Date & Time Stamp	–	✓
Auto Hold / Auto Stable / Real Time	✓	✓
Offset & Average Slope Display	✓	✓
Calibration Alarm (1 to 90 days)	✓	✓
Auto Shut-Off (1 to 30 mins.)	✓	✓
Electrode Status	✓	✓
Diagnostic Messages	✓	✓
PC Communication ¹	–	✓
Printer Communication ²	–	✓
Meter Inputs	BNC, phono	
Display	Custom LCD with backlight (50 x 50 mm)	
Housing	IP67, shock & scratch resistant, non-slip	
Power Requirement	2 x AA batteries	
Battery Life	> 500 hours	
Meter Dimensions	160 (L) x 80 (W) x 40.60 (H) mm	
Meter Weight	Approx. 260 g (with batteries) / 216 g (without batteries)	

¹Via PC (USB) cable PN 3201025022
²Via Printer (RS232) cable PN 3200779638

Ordering Information

Meter Kits*	
3200779526	PH210-K Waterproof pH/ORP/Temperature Handheld Meter Kit • PH210 Meter • 9652-10D Gel pH electrode • 4.01, 7.00, 10.01 pH Buffers (60 ml each) • 2 x AA Batteries • Carrying case • Manual & Quick Guide
3200779527	PH220-K Waterproof pH/ORP/Temperature Handheld Meter Kit • PH220 Meter • 9652-10D Gel pH electrode • 4.01, 7.00, 10.01 pH Buffers (60 ml each) • 2 x AA Batteries • Carrying case • Manual & Quick Guide

*Meter kit with NIST pH buffers is available upon request. Add 'N' suffix to order code.

LAQUA EC210 & EC220

Conductivity/Resistivity/TDS/Salinity/Temperature (°C/°F) Meters



Accepts up to 5 Calibration Points

Allows 1-point Salinity Calibration

Allows Auto and Manual Calibrations

Linear, EN27888, 442, NaCl TDS Curves

Meter Kit Components



Carrying Case

Manual & Quick Guide

Conductivity standards



9383-10D Ti/Pt Conductivity electrode

2 X AA Batteries

Conductivity Meters Specifications

Model	EC210	EC220
Conductivity Range	..µS/cm to 200.0 mS/cm (k=1.0)	
Resolution	0.05% full scale	
Accuracy	±0.6% full scale, ±1.5% full scale > 18.0 mS/cm	
Reference Temperature	15 to 30 °C	
Temperature Coefficient	0.00 to 10.00%	
Cell Constants	0.1, 1.0, 10.0	
Calibration Points	Up to 4 (Auto) / Up to 5 (Manual)	
Units	S/cm, S/m (Auto Ranging)	
Total Dissolved Solids (TDS) Range	..ppm to 100 ppt (TDS factor=0.5)	
Resolution	0.01 ppm (mg/L) / 0.1 ppt (g/L)	
Accuracy	±0.1% full scale	
TDS Curves	Linear (0.40 to 1.00), EN27888, 442, NaCl	
Resistivity Range	0.000 Ω•cm to 20.0 MΩ•cm	
Resolution	0.05% full scale	
Accuracy	±0.6% full scale, ±1.5% full scale > 1.80 MΩ•cm	
Salinity Range	0.0 to 100.0 ppt / 0.00 to 10.00 %	
Resolution	0.1 ppt / 0.01%	
Accuracy	±0.2% full scale	
Salinity Curves	NaCl, Seawater	
Calibration Option	Yes	
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F	
Resolution	0.1 °C / °F	
Accuracy	± 0.5 °C / ± 0.9 °F	
Calibration Option	Yes	
Memory	500	1000
Auto Data Log	✓	✓
Real-time Clock	–	✓
Date & Time Stamp	–	✓
Auto Hold / Auto Stable/ Real Time	✓	✓
Auto Shut-Off (1 to 30 mins.)	✓	✓
Electrode Status	✓	✓
Diagnostic Messages	✓	✓
PC Communication ¹	–	✓
Printer Communication ²	–	✓
Meter Inputs	BNC, phono	
Display	Custom LCD with backlight (50 x 50 mm)	
Housing	IP67, shock & scratch resistant, non-slip	
Power Requirement	2 x AA batteries	
Battery Life	> 500 hours	
Meter Dimensions	160 (L) x 80 (W) x 40.60 (H) mm	
Meter Weight	Approx. 260 g (with batteries) / 216 g (without batteries)	

¹Via PC (USB) cable PN 3201025022
²Via Printer (RS232) cable PN 3200779638

Ordering Information

Meter Kits	
3200779528	EC210-K Waterproof Conductivity/TDS/Res/Sal/Temperature Handheld Meter Kit • EC210 Meter • 9383-10D Ti/Pt Conductivity electrode (k=1.0) • 84 µS/cm, 1413 µS/cm, 12.88 mS/cm, & 111.8 mS/cm Conductivity standards (60 ml each) • 2 x AA Batteries • Carrying case • Manual & Quick Guide
3200779529	EC220-K Waterproof Conductivity/TDS/Res/Sal/Temperature Handheld Meter Kit • EC220 Meter • 9383-10D Ti/Pt Conductivity electrode (k=1.0) • 84 µS/cm, 1413 µS/cm, 12.88 mS/cm, & 111.8 mS/cm Conductivity standards (60 ml each) • 2 x AA Batteries • Carrying case • Manual & Quick Guide

LAQUA DO210 & DO220

Dissolved Oxygen/Temperature (°C/°F) Meters



Allows up to 2 Calibration Points

Measures DO concentration in ppm (mg/L) and % saturation

Compatible with Galvanic DO Probes

Compensates Salinity, Temperature and Atmospheric Pressure

DO Meters Specifications

Model	DO210	DO220
Dissolved Oxygen (DO) Range	0.0 to 20.00 mg/L, 0.0 to 200.0%	
Resolution	0.01 mg/L, 0.1%	
Accuracy	±0.1 mg/L	
Salinity Compensation	0.0 to 40.0 ppt	
Barometric Pressure Compensation	Yes	
DO Probe Type	Galvanic integrated with temperature sensor	
Calibration Points	Up to 2	
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F	
Resolution	0.1 °C / °F	
Accuracy	± 0.5 °C / ± 0.9 °F	
Calibration Option	Yes	
Memory	500	1000
Auto Data Log	✓	✓
Real-time Clock	–	✓
Date & Time Stamp	–	✓
Auto Hold / Auto Stable / Real Time	✓	✓
Auto Shut-Off (1 to 30 mins.)	✓	✓
Electrode Status	✓	✓
Diagnostic Messages	✓	✓
PC Communication ¹	–	✓
Printer Communication ²	–	✓
Meter Inputs	BNC, phono	
Display	Custom LCD with backlight (50 x 50 mm)	
Housing	IP67, shock & scratch resistant, non-slip	
Power Requirement	2 x AA batteries	
Battery Life	> 500 hours	
Meter Dimensions	160 (L) x 80 (W) x 40.60 (H) mm	
Meter Weight	Approx. 260 g (with batteries) / 216 g (without batteries)	

¹Via PC (USB) cable PN 3201025022
²Via Printer (RS232) cable PN 3200779638

Ordering Information

Meter Kits with Galvanic DO probe, 2m Cable		Meter Kits with Galvanic DO probe, 5m Cable	
3200779530	DO210-K Waterproof DO/Temperature Handheld Meter Kit • DO210 Meter • 2 x AA Batteries • Carrying case • Manual & Quick Guide • 9552-20D Galvanic DO probe, 2m cable	4000009167	DO210-K05 Waterproof DO/Temperature Handheld Meter Kit • DO210 Meter • 2 x AA Batteries • Carrying case • Manual & Quick Guide • 9552-50D Galvanic DO probe, 5m cable
3200779531	DO220-K Waterproof DO/Temperature Handheld Meter Kit • DO220 Meter • 2 x AA Batteries • Carrying case • Manual & Quick Guide • 9552-20D Galvanic DO probe, 2m cable	4000009168	DO220-K05 Waterproof DO/Temperature Handheld Meter Kit • DO220 Meter • 2 x AA Batteries • Carrying case • Manual & Quick Guide • 9552-50D Galvanic DO probe, 5m cable

Meter Kit Components



Carrying Case



Manual & Quick Guide



9552-20D or 9552-50D Galvanic DO probe



2 X AA Batteries

LAQUA PC210 & PC220

pH/ORP/Conductivity/Resistivity/TDS/Salinity/Temperature (°C/°F) Meters



Accepts up to 6 Calibration Points

USA, NIST & DIN pH Buffer Groups

pH Buffer Group	pH Buffer Values (25° C)
USA	1.68, 4.01, 7.00, 10.01, 12.45
NIST	1.68, 4.01, 6.86, 9.18, 12.45
DIN	1.09, 3.06, 4.65, 6.79, 9.23, 12.75

Allows 1-point ORP Calibration

Shows Offset & Average Slope Data

Accepts up to 5 Calibration Points

Allows 1-point Salinity Calibration

Allows Auto and Manual Calibrations

Linear, EN27888, 442, NaCl TDS Curves

Meter Kit Components



Carrying Case



Manual & Quick Guide



pH Buffers



Conductivity standards



9652-10D Gel pH electrode



9383-10D Ti/Pt Conductivity electrode



2 X AA Batteries

Multi-Parameters Meters Specifications

Model	PC210	PC220
pH Range	-2.00 to 16.00 pH	
Resolution	0.01 pH	
Accuracy	±0.01 pH	
Calibration Points	USA & NIST (Up to 5), DIN (Up to 6)	
pH Buffer Groups	USA, NIST, DIN	
ORP Range	±2000 mV	
Resolution	0.1 mV (< ±1000 mV), 1 mV (≥ ±1000mV)	
Accuracy	±0.3 mV (< ±1000 mV), 0.3% of reading (≥ ±1000mV)	
Calibration Option	Yes	
Conductivity Range	..µS/cm to 200.0 mS/cm (k=1.0)	
Resolution	0.05% full scale	
Accuracy	±0.6% full scale, ±1.5% full scale > 18.0 mS/cm	
Reference Temperature	15 to 30 °C	
Temperature Coefficient	0.00 to 10.00%	
Cell Constants	0.1, 1.0, 10.0	
Calibration Points	Up to 4 (Auto) / Up to 5 (Manual)	
Units	S/cm, S/m (Auto Ranging)	
Total Dissolved Solids (TDS) Range	..ppm to 100 ppt (TDS factor=0.5)	
Resolution	0.01 ppm (mg/L) / 0.1 ppt (g/L)	
Accuracy	±0.1% full scale	
TDS Curves	Linear (0.40 to 1.00), EN27888, 442, NaCl	
Resistivity Range	0.000 Ω•cm to 20.0 MΩ•cm	
Resolution	0.05% full scale	
Accuracy	±0.6% full scale, ±1.5% full scale > 1.80 MΩ•cm	
Salinity Range	0.0 to 100.0 ppt / 0.00 to 10.00 %	
Resolution	0.1 ppt / 0.01%	
Accuracy	±0.2% full scale	
Salinity Curves	NaCl, Seawater	
Calibration Option	Yes	
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F	
Resolution	0.1 °C / °F	
Accuracy	± 0.5 °C / ± 0.9 °F	
Calibration Option	Yes	
Memory	500	1000
Auto Data Log	✓	✓
Real-time Clock	—	✓
Date & Time Stamp	—	✓
Auto Hold / Auto Stable / Real Time	✓	✓
Offset & Average Slope Display	✓	✓
Calibration Alarm (1 to 90 days)	✓	✓
Auto Shut-Off (1 to 30 mins.)	✓	✓
Electrode Status	✓	✓
Diagnostic Messages	✓	✓
PC Communication ¹	—	✓
Printer Communication ²	—	✓
Meter Inputs	BNC, phono	
Display	Custom LCD with backlight (50 x 50 mm)	
Housing	IP67, shock & scratch resistant, non-slip	
Power Requirement	2 x AA batteries	
Battery Life	> 500 hours	
Meter Dimensions	160 (L) x 80 (W) x 40.60 (H) mm	
Meter Weight	Approx. 260g (with batteries) / 216g (without batteries)	

¹Via PC (USB) cable PN 3201025022

²Via Printer (RS232) cable PN 3200779638

Ordering Information

Meter Kits*	
3200779532	PC210-K Waterproof pH/ORP/Conductivity/TDS/Sal/Res/Temperature Handheld Meter Kit - PC210 Meter 9652-10D Gel pH electrode 9383-10D Ti/Pt Conductivity electrode (k=1.0) 4.01 & 7.00 pH Buffers (60 ml each) 1413 µS/cm & 12.88 mS/cm Conductivity standards (60 ml each) 2 x AA Batteries - Electrode Adapter - Carrying case - Manual & Quick Guide
3200779533	PC220-K Waterproof pH/ORP/Conductivity/TDS/Sal/Res/Temperature Handheld Meter Kit - PC220 Meter 9652-10D Gel pH electrode 9383-10D Ti/Pt Conductivity electrode (k=1.0) 4.01 & 7.00 pH Buffers (60 ml each) 1413 µS/cm & 12.88 mS/cm Conductivity standards (60 ml each) 2 x AA Batteries - Electrode Adapter - Carrying case - Manual & Quick Guide

*Meter kit with NIST pH buffers is available upon request. Add 'N' suffix to order code.

LAQUA PD210 & PD220

pH/ORP/Dissolved Oxygen/Temperature (°C/°F) Meters

Accepts up to 6 Calibration Points

USA, NIST & DIN pH Buffer Groups

pH Buffer Group	pH Buffer Values (25° C)
USA	1.68, 4.01, 7.00, 10.01, 12.45
NIST	1.68, 4.01, 6.86, 9.18, 12.45
DIN	1.09, 3.06, 4.65, 6.79, 9.23, 12.75

Allows 1-point ORP Calibration

Shows Offset & Average Slope Data



Allows up to 2 Calibration Points

Measures DO concentration in ppm (mg/L) and % saturation

Compatible with Galvanic DO Probes

Compensates Salinity, Temperature and Atmospheric Pressure

Meter Kit Components



Carrying Case



Manual & Quick Guide



pH Buffers



Electrode Adapter



9652-20D Gel pH electrode



9552-20D Galvanic DO probe



2 X AA Batteries

Multi-Parameters Meters Specifications

Model	PD210	PD220
pH Range	-2.00 to 16.00 pH	
Resolution	0.01 pH	
Accuracy	±0.01 pH	
Calibration Points	USA & NIST (Up to 5), DIN (Up to 6)	
pH Buffer Groups	USA, NIST, DIN	
ORP Range	±2000 mV	
Resolution	0.1 mV (< ±1000 mV), 1 mV (≥ ±1000mV)	
Accuracy	±0.3 mV (< ±1000 mV), 0.3% of reading (≥ ±1000mV)	
Calibration Option	Yes	
Dissolved Oxygen (DO) Range	0.0 to 20.00 mg/L 0.0 to 200.0%	
Resolution	0.01 mg/L, 0.1%	
Accuracy	±0.1 mg/L	
Salinity Compensation	0.0 to 40.0 ppt	
Barometric Pressure Compensation	Yes	
DO Probe Type	Galvanic integrated with temperature sensor	
Calibration Points	Up to 2	
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F	
Resolution	0.1 °C / °F	
Accuracy	± 0.5 °C / ± 0.9 °F	
Calibration Option	Yes	
Memory	500	1000
Auto Data Log	✓	✓
Real-time Clock	—	✓
Date & Time Stamp	—	✓
Auto Hold / Auto Stable / Real Time	✓	✓
Offset & Average Slope Display	✓	✓
Calibration Alarm (1 to 90 days)	✓	✓
Auto Shut-Off (1 to 30 mins.)	✓	✓
Electrode Status	✓	✓
Diagnostic Messages	✓	✓
PC Communication ¹	—	✓
Printer Communication ²	—	✓
Meter Inputs	BNC, phono	
Display	Custom LCD with backlight (50 x 50 mm)	
Housing	IP67, shock & scratch resistant, non-slip	
Power Requirement	2 x AA batteries	
Battery Life	> 500 hours	
Meter Dimensions	160 (L) x 80 (W) x 40.60 (H) mm	
Meter Weight	Approx. 260 g (with batteries) / 216 g (without batteries)	

¹Via PC (USB) cable PN 3201025022
²Via Printer (RS232) cable PN 3200779638

Ordering Information

Meter Kits [^]		
3200779534	PD210-K Waterproof pH/ORP/DO/Temperature Handheld Meter Kit • PD210 Meter • 9652-20D Gel pH electrode, 2m cable • 9552-20D Galvanic DO probe, 2m cable • 4.01, 7.00, 10.01 pH Buffers (60 ml each) • 2 x AA Batteries • Electrode Adapter • Carrying case • Manual & Quick Guide	
3200779535	PD220-K Waterproof pH/ORP/DO/Temperature Handheld Meter Kit • PD220 Meter • 9652-20D Gel pH electrode, 2m cable • 9552-20D Galvanic DO probe, 2m cable • 4.01, 7.00, 10.01 pH Buffers (60 ml each) • 2 x AA Batteries • Electrode Adapter • Carrying case • Manual & Quick Guide	

[^]Meter kit with NIST pH buffers is available upon request. Add 'N' suffix to order code.

Accessories & Solutions

Ordering Information

pH Buffers

Part No.	Model	Description
3200043642	101-S	pH6,86 (500 ml), pH4 (250 ml) and pH9,18 (250 ml) buffer Solution / Reference Electrode Internal Solution #300 (250 ml) / Dropper
3200043639	100-2	pH 1,68 buffer Solution (500 ml)
3200043637	100-7	pH 6.86 Standard Solution (500 ml)
3200043636	100-9	pH 9.18 buffer Solution (500 ml)
1300045600	250-PH-4	pH 4,01 buffer solution, 250 ml in dosing bottle, NIST Traceable with certificate, accuracy ± 0,01 @ 25°C
1300045602	500-PH-4	pH 4,01 buffer solution, 500 ml in dosing bottle, NIST Traceable with certificate, accuracy ± 0,01 @ 25°C
1300045599	1000-PH-4	pH 4,01 buffer solution, 1 ltr in dosing bottle, NIST Traceable with certificate, accuracy ± 0,01 @ 25°C
1300045607	250-PH-7	pH 7,00 buffer solution, 250 ml in dosing bottle, NIST Traceable with certificate, accuracy ± 0,01 @ 25°C
1300045608	500-PH-7	pH 7,00 buffer solution, 500 ml in dosing bottle, NIST Traceable with certificate, accuracy ± 0,01 @ 25°C
1300045606	1000-PH-7	pH 7,00 buffer solution, 1 ltr in dosing bottle, NIST Traceable with certificate, accuracy ± 0,01 @ 25°C
1300045604	250-PH-10	pH 10,01 buffer solution, 250 ml in dosing bottle, NIST Traceable with certificate, accuracy ± 0,02 @ 25°C
1300045605	500-PH-10	pH 10,01 buffer solution, 500 ml in dosing bottle, NIST Traceable with certificate, accuracy ± 0,02 @ 25°C
1300045603	1000-PH-10	pH 10,01 buffer solution, 1 ltr in dosing bottle, NIST Traceable with certificate, accuracy ± 0,02 @ 25°C

ORP Solutions

Part No.	Model	Description
1300045637	250-ORP-200	200 mV Redox / ORP solution, 250 ml round brown bottle, accuracy ± 5mV @ 25°C
1300045636	250-ORP-475	475 mV Redox / ORP solution, 250 ml dosing bottle, accuracy ± 5mV @ 25°C
1300045635	500-ORP-475	475 mV Redox / ORP solution, 500 ml dosing bottle, accuracy ± 5mV @ 25°C
1300045634	500-ORP-650	650 mV Redox / ORP solution, 500 ml dosing bottle, accuracy ± 5mV @ 25°C

Conductivity Standards

Part No.	Model	Description
1300045609	250-EC-84	84 uS/cm Calibration Solution, 250 ml dosing bottle with certificate, accuracy±1%, KCl
1300045632	500-EC-84	84 uS/cm Calibration Solution, 500 ml dosing bottle with certificate, accuracy±1%, KCl
1300045633	1000-EC-84	84 uS/cm Calibration Solution, 1 ltr dosing bottle with certificate, accuracy±1%, KCl
1300051602	250-EC-147	147 uS/cm Calibration Solution, 250 ml dosing bottle with certificate, accuracy±1%, KCl
1300045595	250-EC-1413	1,413 uS/cm Calibration Solution, 250 ml dosing bottle with certificate, accuracy±1%, (25°C)=0.01M KCl
1300045638	500-EC-1413	1,413 uS/cm Calibration Solution, 500 ml dosing bottle with certificate, accuracy±1%, (25°C)=0.01M KCl
1300045591	1000-EC-1413	1,413 uS/cm Calibration Solution, 1 ltr dosing bottle with certificate, accuracy±1%, (25°C)=0.01M KCl
1300045590	250-EC-1288	12,88 mS/cm Calibration Solution, 250 ml dosing bottle with certificate, accuracy ±1%, (25°C)=0.1M KCl
1300045639	500-EC-1288	12,88 mS/cm Calibration Solution, 500 ml dosing bottle with certificate, accuracy ±1%, (25°C)=0.1M KCl
1300045588	1000-EC-1288	12,88 mS/cm Calibration Solution, 1 ltr dosing bottle with certificate, accuracy ±1%, (25°C)=0.1M KCl
1300045630	250-EC-1118	111,8 mS/cm Calibration Solution, 250 ml dosing bottle with certificate, accuracy ±1% (25°C)= 1M KCl
1300045660	500-EC-1118	111,8 mS/cm Calibration Solution, 500 ml dosing bottle with certificate, accuracy ±1% (25°C)= 1M KCl
1300045631	1000-EC-1118	111,8 mS/cm Calibration Solution, 1 ltr dosing bottle with certificate, accuracy ±1% (25°C)= 1M KCl

pH Electrode Cleaning Solutions

Part No.	Model	Description
3014028653	220	Cleaning solution for removing inorganic sample residues, 50 ml x 2 pcs
3200530494	230	Cleaning solution for removing inorganic and organic sample residues, Solution A (30 ml) & Solution B (100 ml)
3200366771	250	Cleaning solution for removing proteins, 400 ml

Turbidity Solutions

Part No.	Model	Description
3201063378	550-TBP-4	Standard solution set (0.02, 20, 100 & 800 NTU), 50ml each
3201063380	550-TBP-2L	Standard solution set (0.02 & 20 NTU) , 50ml each
3201063381	550-TBP-2H	Standard solution set (100 & 800 NTU) , 50ml each



550-TBP-4 Standard solution set
0.02, 20, 100 & 800 NTU (50ml each)

Electrodes*

Part No.	Model	Description
3200786359	9652-10D	3-in-1 Plastic-body, gel-filled pH electrode (1m cable)
3200786361	9652-20D	3-in-1 Plastic-body, gel-filled pH electrode (2m cable)
3014046710	9300-10D	3-in-1 Glass-body, platinum, refillable ORP electrode (1m cable)
3200922105	9301-10D	3-in-1 Plastic-body, platinum, gel-filled ORP electrode (1m cable)
3200780927	9383-10D	Plastic-body, Ti/Pt black, k=1.0 conductivity cell with thermistor (1m cable)
3200780939	9552-20D	Galvanic DO probe with thermistor (2m cable)
3200780941	9552-50D	Galvanic DO probe with thermistor (5m cable)
3200781553	5402	Replacement DO tip for 9552-20D and 9552-50D

*Electrodes carry 6-month warranty against manufacturing defects.



5402 Replacement DO Tip



X-51
Digital Simulator



X-52
Digital Simulator



Printer



25-pin D-Sub Printer
(RS232) cable
(Meter to Printer)



Electrode Adapter



PC (USB) cable
(Meter to Computer)



TB220-SILICONE OIL,
CLOTH SET
Set of silicone oil
and cloth



TB220-VIAL COVER
Vial cover for TB220



TB220-VIAL 4SET
Set of 4 sample vials

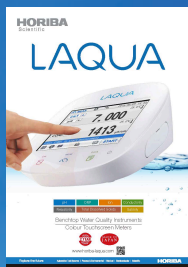
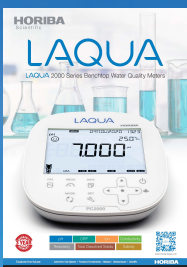
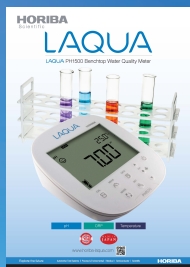
Accessories

Part No.	Model	Description
3014028368	X-51	Digital simulator for pH, mV, Ion, DO & temperature
3014028370	X-52	Digital simulator for conductivity & temperature
3014030146	—	Printer for GLP / GMP compliance, 120V US version (printer cable is sold separately)
3014030147	—	Printer for GLP / GMP compliance, 230V EU version (printer cable is sold separately)
3200779638	—	25-pin D-Sub Printer (RS232) cable (meter to printer), 1.5m
3014030149	—	Printer paper, 20 rolls
3014030150	—	Printer ink ribbon, 5pcs/pack
3200775948	—	Electrode adapter
3201025022	—	PC (USB) cable to connect meter and computer, 1.5m
3201067504	TB220-SILICONE OIL, CLOTH SET	Set of silicone oil and cloth
3201067927	TB220-VIAL 4SET	Set of 4 sample vials
3201068357	TB220-VIAL COVER	Vial cover for TB220



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.

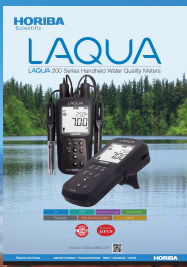
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Developed using extensive feedback from users, our new LAQUA bench top meters deliver the best solution for water quality analysis. The complete solution for every lab, whether it is at school, quality assurance lab or pharmaceutical industry, we have the right instrument at the right budget for you.

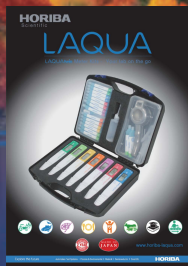
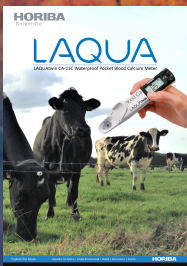
Consult our website or electrode brochure to select the electrode most suitable for your application.



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.



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