# HORIBA
Scientific

# LAQUA

LAQUA 200 Series Handheld Water Quality Meters

| pH | ORP | Dissolved Oxygen | Conductivity |
|---|---|---|---|
| Resistivity | | Total Dissolved Solids | Salinity |

METERS
3 YEARS
WARRANTY

www.horiba-laqua.com

# LAQUA 200 Series
## Handheld Water Quality Meters

VIDEO

**Impact Resistant**

## 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.

## Backlit, Large LCD Screen

All models have scratch-resistant monochrome digital LCD (50 x 50 mm) with white LED backlight for easy viewing of readings even in dark locations.

## Hands-free Testing

Attach a wrist strap* or lanyard to hang the meter or place the meter into the carrying case while in use.

*Optional

Meter shown in actual size

## 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.

1.0 mm Thermoplastic elastomer (TPE)

Polycarbonate

## 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.

1000 mAh → 2500 mAh
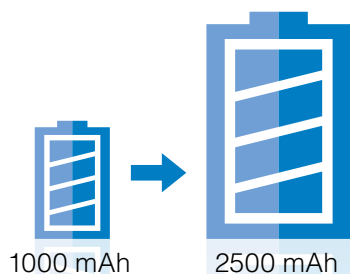
## High Battery Capacity

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

CAL   MEAS   DATA

MODE   SET

ENT

## 9-Button Keypad Minimal Matrix

Operation buttons are reduced to the bare minimum.

## 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]

## PC / Printer Communications

The 220 models are GLP-compliant: calibration and measurement data are captured with date and time stamp. Connect any 220 model to a computer using a PC (USB) cable[2] to transfer data via data acquisition software or connect to a HORIBA printer using a printer (RS232) cable[2] to print data.
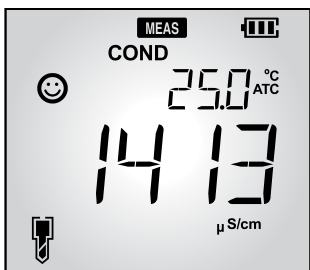
[1] With electrodes connected and communication port sealed
[2] Cables and printer are sold separately
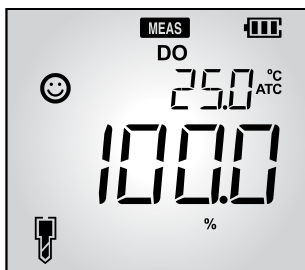
## Easy-to-Read Display

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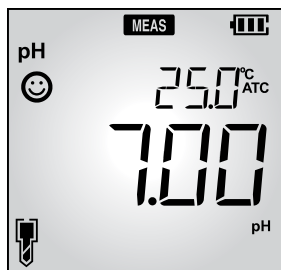


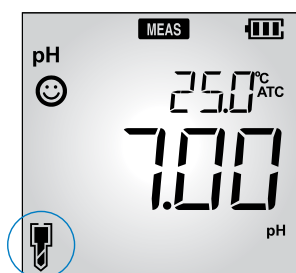pH Display



Conductivity Display



Dissolved Oxygen Display



## Electrode Status Indicator

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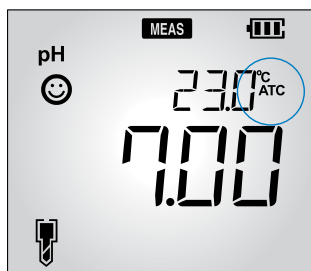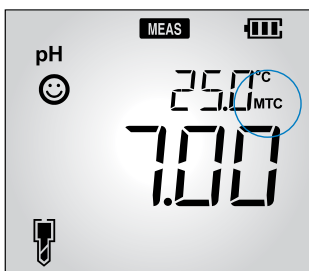


Excellent    Very Good    Good



Temperature sensor connected



Temperature sensor disconnected

## Temperature Sensor Indicator

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

## Measurement modes: Auto Stable, Auto Hold, Real Time

**Auto Stable (AS) mode** - the meter shows live readings; ☺ annunciator blinks until the reading is stable.

**Auto Hold (AH) mode** - the meter locks the stable reading; ☺ annunciator blinks until reading is stable and then HOLD lights up.

**Real Time** - the meter shows live readings; Both ☺ and HOLD annunciators are inactive.
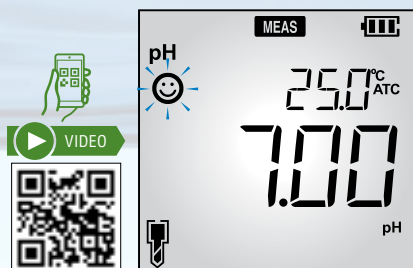


Auto Stable
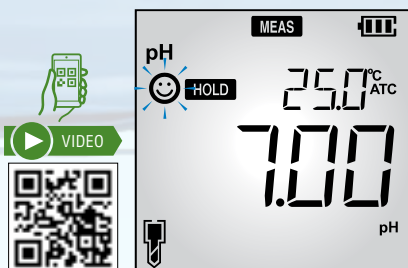


Auto Hold
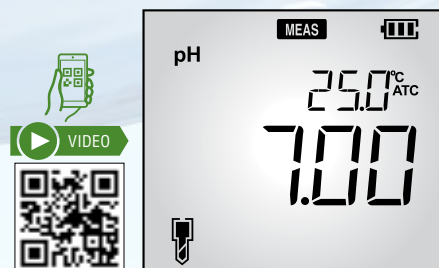


Real Time

## Calibration Data

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



## Diagnostic Messages

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



Visit the **HORIBA LAQUA Singapore** Channel on YouTube and subscribe to see more of our videos.

# 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.

User Manual and Notes Compartment

Clear sleeve for Quick Guide

DO Replacement Tip

Calibration Solutions

Electrode Adapter

2 x AA Batteries

Electrode Cable Compartment

pH Electrode

Conductivity Electrode

LAQUA 200 Series Meter

DO Electrode

DO Electrode Cable Winder (up to 5.0m)

IP67

| 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 16 mm | |
| 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 16 mm |
| 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 16 mm |
| 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 30 mm | |
| Cable Length | 2.0 m | 5.0 m |
| Replacement DO Tip / Part No. | 5402 / 3200781553 | |

## pH Meters



| Model | PH210 | PH220 |
|---|---|---|
| | pH/ORP/Temp (°C/°F) | |
| 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 | |
| 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) | |
| Meter Kit* | **PH210-K Waterproof pH/ORP/Temp Handheld Meter Kit (3200779526)**<br>• PH210 Meter<br>• 9652-10D Gel pH electrode<br>• 4.01, 7.00, 10.01 pH Buffers (60 ml each)<br>• 2 x AA Batteries<br>• Carrying case<br>• Manual & Quick Guide | **PH220-K Waterproof pH/ORP/Temp Handheld Meter Kit (3200779527)**<br>• PH220 Meter<br>• 9652-10D Gel pH electrode<br>• 4.01, 7.00, 10.01 pH Buffers (60 ml each)<br>• 2 x AA Batteries<br>• Carrying case<br>• Manual & Quick Guide |

*Meter kit with NIST pH buffers is available upon request. Add 'N' suffix to order code.
[1]Via PC (USB) cable PN 3200779639
[2]Via Printer (RS232) cable PN 3200779638

● Available     — Not available

# Conductivity Meters



| Model | EC210 | EC220 |
|---|---|---|
| | EC/TDS/Res/Sal/Temp (°C/°F) | |
| 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 | |
| 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) | |
| Meter Kit | **EC210-K Waterproof EC/TDS/Res/Sal/Temp Handheld Meter Kit (3200779528)**<br>• EC210 Meter<br>• 9383-10D Ti/Pt Conductivity electrode (k=1.0)<br>• 84 µS/cm, 1413 µS/cm, 12.88 mS/cm, & 111.8 mS/cm Conductivity standards (60 ml each)<br>• 2 x AA Batteries<br>• Carrying case<br>• Manual & Quick Guide | **EC220-K Waterproof EC/TDS/Res/Sal/Temp Handheld Meter Kit (3200779529)**<br>• EC220 Meter<br>• 9383-10D Ti/Pt Conductivity electrode (k=1.0)<br>• 84 µS/cm, 1413 µS/cm, 12.88 mS/cm, & 111.8 mS/cm Conductivity standards (60 ml each)<br>• 2 x AA Batteries<br>• Carrying case<br>• Manual & Quick Guide |

[1]Via PC (USB) cable PN 3200779639
[2]Via Printer (RS232) cable PN 3200779638

● Available    — Not available

## DO Meters



| Model | DO210 | DO220 |
|---|---|---|
| | DO/Temp (°C/°F) | |
| Dissolved Oxygen (DO) Range | 0.0 to 20.00 mg/L<br>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 | |
| 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) | |
| Meter Kit with Galvanic DO probe, 2m cable | **DO210-K Waterproof DO/Temp Handheld Meter Kit (3200779530)**<br>• DO210 Meter<br>• 2 x AA Batteries<br>• Carrying case<br>• Manual & Quick Guide<br>• 9552-20D Galvanic DO probe, 2m cable | **DO220-K Waterproof DO/Temp Handheld Meter Kit (3200779531)**<br>• DO220 Meter<br>• 2 x AA Batteries<br>• Carrying case<br>• Manual & Quick Guide<br>• 9552-20D Galvanic DO probe, 2m cable |
| Meter Kit with Galvanic DO probe, 5m cable | **DO210-K05 Waterproof DO/Temp Handheld Meter Kit (4000009167)** | **DO220-K05 Waterproof DO/Temp Handheld Meter Kit (4000009168)** |

[1]Via PC (USB) cable PN 3200779639
[2]Via Printer (RS232) cable PN 3200779638

● Available    — Not available

## Multi-Parameter Meters



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

*Meter kit with NIST pH buffers is available upon request. Add 'N' suffix to order code.
[1]Via PC (USB) cable PN 3200779639
[2]Via Printer (RS232) cable PN 3200779638

● Available    — Not available

## Multi-Parameter Meters



| Model | PD210 | PD220 |
|---|---|---|
| | pH/ORP/DO/Temp (°C/°F) | |
| 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 <br> 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 | |
| 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) | |
| Meter Kit* | **PD210-K Waterproof pH/ORP/DO/Temp Handheld Meter Kit (3200779534)** <br> • PD210 Meter <br> • 9652-20D Gel pH electrode, 2 m cable <br> • 9552-20D Galvanic DO probe, 2 m cable <br> • 4.01, 7.00, 10.01 pH Buffers (60 ml each) <br> • 2 x AA Batteries <br> • Electrode Adapter <br> • Carrying case <br> • Manual & Quick Guide | **PD220-K Waterproof pH/ORP/DO/Temp Handheld Meter Kit (3200779535)** <br> • PD220 Meter <br> • 9652-20D Gel pH electrode, 2 m cable <br> • 9552-20D Galvanic DO probe, 2 m cable <br> • 4.01, 7.00, 10.01 pH Buffers (60 ml each) <br> • 2 x AA Batteries <br> • Electrode Adapter <br> • Carrying case <br> • Manual & Quick Guide |

*Meter kit with NIST pH buffers is available upon request. Add 'N' suffix to order code.
[1]Via PC (USB) cable PN 3200779639
[2]Via Printer (RS232) cable PN 3200779638

●    Available     —     Not available

# Accessories & Solutions

## pH Buffers

| Part No. | Model | Description |
|---|---|---|
| 3999960015 | 501-S | NIST pH Buffers Kit (pH 4.01, 6.86, 9.18 buffers & 3.33 M KCl, 250 ml each) |
| 3999960016 | 502-S | USA pH Buffers Kit (pH 4.01, 7.00, 10.01 buffers & 3.33 M KCl, 250 ml each) |
| 3999960028 | 500-2 | pH 1.68 Buffer at 25 °C, 500 ml |
| 3999960029 | 500-4 | pH 4.01 Buffer at 25 °C, 500 ml |
| 3999960030 | 500-686 | pH 6.86 Buffer at 25 °C, 500 ml |
| 3999960031 | 500-7 | pH 7.00 Buffer at 25 °C, 500 ml |
| 3999960032 | 500-9 | pH 9.18 Buffer at 25 °C, 500 ml |
| 3999960033 | 500-10 | pH 10.01 Buffer at 25 °C, 500 ml |
| 3999960034 | 500-12 | pH 12.46 Buffer at 25 °C, 500 ml |

502-S USA pH Buffers Kit

## ORP Standard Solution & Powders

| Part No. | Model | Description |
|---|---|---|
| 4000047848 | 500-225 | ORP Standard Solution 225 mV at 25°C (500ml) |
| 3200043618 | 160-51 | 89 mV at 25 °C for 250 ml (10 sachets/pack) |
| 3200043617 | 160-22 | 258 mV at 25 °C for 250 ml (10 sachets/pack) |

## Conductivity Standards

| Part No. | Model | Description |
|---|---|---|
| 3999960017 | 503-S | Conductivity Standards Kit (84 µS/cm, 1413 µS/cm, 12.88 mS/cm & 111.8 mS/cm, 250 ml each) |
| 3999960035 | 500-21 | 84 µS/cm Conductivity Standard at 25 °C, 500 ml |
| 3999960036 | 500-22 | 1413 µS/cm Conductivity Standard at 25 °C, 500 ml |
| 3999960037 | 500-23 | 12.88 mS/cm Conductivity Standard at 25 °C, 500 ml |
| 3999960038 | 500-24 | 111.8 mS/cm Conductivity Standard at 25 °C, 500 ml |



ORP Standard
Solution 225 mV

ORP Powders

## 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 |

## 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 |

X-51 Digital Simulator    X-52 Digital Simulator



## 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), 1.5 m |
| 3014030149 | - | Printer paper, 20 rolls |
| 3014030150 | - | Printer ink ribbon, 5pcs/pack |
| 3200775948 | - | Electrode adapter |
| 3200779639 | - | PC (USB) cable to connect meter and computer, 1.5 m |

*Electrodes carry 6-month warranty against manufacturing defects.

Printer



PC (USB) cable
(Meter to Computer)

Electrode Adapter



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

Replacement DO
tip 5402

## 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.
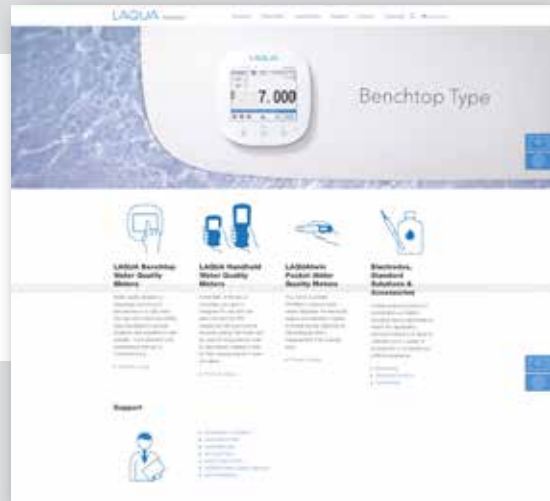
### Benchtop Meters
Developed using extensive feedback from users, our new LAQUA meters deliver the best solution for water quality analysis. Our LAQUA website features an online 'Selection Guide' to enable you to find the perfect LAQUA meter and electrode for your need.

### Handheld Meters
In the lab, in the field or anywhere you need it. LAQUA Handheld meters are designed for use with one hand and 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.

### 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.

Visit the **HORIBA LAQUA Singapore** Channel on YouTube and subscribe to see more of our videos.

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**IMS** HORIBA Group is operating Integrated Management System — ISO9001, ISO14001, OHSAS18001

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