



ProfiLine Handhelds

For pH, ISE, Dissolved Oxygen and Conductivity

DOMINIQUE



a xylem brand

ProfiLine

Single Parameter Instruments

Data-logging

Mobile Lab

Measurements

Communication

Communication

Surface waters

Quality

Ground Water

Fishfarming

Wastewater

Measurements

Mobile Lab

pH

Cond

D.O.

3110 Series and 3205 : Functional and easy-to-use

Easy-to-clean

For people who want a reliable, simple and easy-to-use portable pH meter, the **pH3110** is the right choice.

- Robust meter housing plus 100 % waterproof and easy-to-clean keypad
- Keys with tactile feedback for error-free operation
- Built-in calibration timer for reliable results

For conductivity measurement the **Cond3110** is available with a 2- or 4-electrode cell for general purpose applications.

The **Oxi 3205** is an excellent easy-to-use D.O. instruments with a backlit graphic display - ideal for applications like fish farming.

Ease-of-use guarantees dependable results whether measuring surface water or the chemical process.



Robust sealed silicone keypad - 100% waterproof



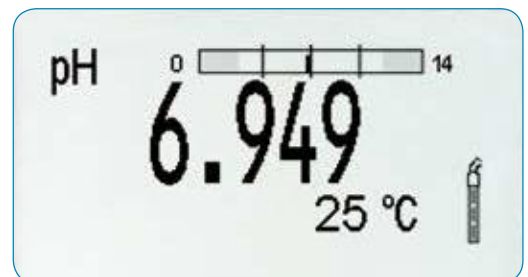


3310 Series: Versatile measurement combined with high capacity data logging

The Serie 3310 is perfectly suited for measurements in different applications with defined sensors and exact data sampling. For traceability the instrument allows the storing of a sample ID. The measuring instruments **pH3310**, **pH/ION3310**, **Cond3310** and **Oxi3310** have the following advantages:

- Interval controlled datalogging function for up to 5000 records: perfect for long-term recording in the field
- 100 % waterproof USB interface for field measurement
- Fast data transfer to laptop or PC

Secures your measurement range



The CMC function (Continuous Measurement Control) of a pH 3310 informs you whether you are measuring inside the calibrated range. An alert is given as soon as you are outside the limits.

Waterproof USB interface



100 % waterproof USB interface for fast communication with a PC or laptop.



For more detailed information please visit our web site :
www.WTW.com/en/profiline
 (For convenience use our QR code).

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pH/Cond 3320: Perfect for Process Application

Water proof socket field

The pH/Cond 3320 with two inputs for pH, mV, ISE and Conductivity measurement is an all-rounder for almost every application in chemical process, Life Science, food and beverages and pharmaceutical industry (Measurement of pH and conductivity according pharmacopeia standards)

- Two inputs for simultaneous measurement of pH/mV/ISE and conductivity
- Backlit two channel LCD display
- Suitable for all modern WTW pH, electrodes, combined ISE electrodes and conductivity cells



With waterproof mini USB-B interface for up-to-date data transfer.



The pH/Cond 3320 has a robust waterproof housing (IP 67) and is equipped with a large memory and a data logging function with an adjustable interval between 1 s and 60 minutes. All records have a time and date stamp as well as an assignable ID number. The waterproof USB interface makes data transfer fast and easy.





pH **ISE** **D.O.** **Cond**

Simultaneous measurement



Display with two measured values

Multi 3320: The Environmental Expert

The Multi 3320 for measurement of pH, ORP, ISE, conductivity and dissolved oxygen (electro chemical) is a perfect meter for environmental applications in ground and surface water, aqua culture, waste water treatment plants and much more. An integrated ISE routine allows also occasional ISE measurement.

- Two inputs for simultaneous measurements of pH and conductivity or pH and dissolved oxygen
- Backlit two channel display
- For all up-to-date WTW pH electrodes, combined ISEs, conductivity cells and galvanic oxygen sensors



The Multi 3320 has a robust waterproof housing (IP 67) and memory with data logger with adjustable interval between 1 s and 60 minutes. The keypad can also be operated when wearing gloves and is easy to clean under a water jet.



Technical Data

(all values ± 1 digit)

| | | |
|---------------------------|--|---|
| Instrument | 3110/3205 | 3310/3320 |
| Calibration memory | current calibration | up to 10 calibrations |
| Celsius/Fahrenheit | yes | yes |
| AutoRead | automatic | automatic/manual selectable |
| Display | Customized LCD, 3205: LCD graphic display, backlit | LCD graphic display, backlit |
| Data memory | - | manual 200/5000 automatic |
| Logger | - | manual/time controlled |
| Interface | - | USB 1.1 |
| Power supply | 4 x 1.5 V AA oder 4 x 1.2 V NiMH-rechargeable battery | 4 x 1.5 V AA oder 4 x 1.2 V NiMH-rechargeable battery |
| Continuous operation time | up to 3000 hours (pH 3110) to 1000 hours/800 hours (Cond 3110/Oxi 3205: 100 hours with backlit) | up to 100 hours/800 hours w/o backlit |
| Protection class | IP 67 | IP 67 |

| | | |
|-----------------------------------|---|--|
| Model | pH 3110 | pH 3310, pH/ION 3310, pH/Cond 3320, Multi 3320 |
| pH | -2.0 ... 20.0 ± 0.1 pH -2.00 ... 20.00 ± 0.01 pH -2.000 ... 19.999 ± 0.005 pH | -2.0 ... 20.0 ± 0.1 pH -2.00 ... 20.00 ± 0.01 pH -2.000 ... 19.999 ± 0.005 pH |
| mV | ± 1200.0 ± 0.3 mV ± (2000 ± 1) mV | ± 1200.0 ± 0.3 mV ± (2500 ± 1) mV |
| ISE (mg/l, µmol/l, mg/kg, ppm, %) | - | 0.000 ... 9.999 (Not pH 3310) 10.00 ... 99.99 100.0 ... 999.9 1000 ... 999999 |
| Temperature | -5.0 ... 105.0 °C ± 0.1 °C | -5.0 ... 105.0 °C ± 0.1 °C |
| CMC | - | yes |
| Calibration | 1- 2- 3 point WTW Technical and NIST Buffer | 1- 2- 3- 4- 5 point WTW Technical NIST and 20 additional buffer sets pH/ION 3320, pH/Cond 3320, Multi 3320: ISE: 2-7 point |

| | | |
|---------------------------------|--|--|
| Model | Oxi 3205 | Oxi 3310 |
| Dissolved Oxygen Concentration* | 0.00 ... 20.00 mg/l ± 0.5 % of val. 0 ... 90 mg/L ± 0.5 % of val. | 0.00 ... 20.00 mg/l ± 0.5 % of val. 0 ... 90 mg/L ± 0.5 % of val. |
| Saturation* | 0.0 ... 200.0 % ± 0.5 % of val. 0 ... 600 % ± 0.5 % of val. | 0.0 ... 200.0 % ± 0.5 % of val. 0 ... 600 % ± 0.5 % of val. |
| Partial pressure* | 0 ... 200.0 hPa, 0 ... 1250 hPa. ± 0.5 % of val. | 0 ... 200.0 hPa, 0 ... 1250 hPa. ± 0.5 % of val. |
| Temperature | -5.0 ... 50.0 °C ± 0.1 °C | -5.0 ... 50.0 °C ± 0.1 °C |
| Calibration | CellOx®/DurOx® with calibration vessels | CellOx®/DurOx® with calibration vessels versus external standard |
| Built-in barometric sensor | yes | yes |

* depending

| | | |
|--------------------------|---|--|
| Model | Cond 3110 | Cond 3310 |
| Conductivity | 0.0 ... 1000 mS/cm ± 0.5 % of val. | 0.0 ... 1000 mS/cm ± 0.5 % of val. |
| additionally | | 0.000 ... 1.999 µS/cm. K = 0.01 cm ⁻¹ 0.00 ... 19.99 µS/cm. K = 0.1 cm ⁻¹ |
| Specific resistance | - | 0.00 ... 20 MΩ cm |
| Cell constants | fixed: 0.475 cm ⁻¹ calibratable: 0.450 ... 0.500 cm ⁻¹ , 0.800 ... 0.880 cm ⁻¹ | fixed: 0.010 cm ⁻¹ calibratable: 0.450 ... 0.500 cm ⁻¹ , 0.800 ... 0.880 cm ⁻¹ adjustable: 0.090 ... 0.110 cm ⁻¹ , 0.250 ... 25.000 cm ⁻¹ |
| Salinity | 0.0 ... 70.0 (acc. IOT) | 0.0 ... 70.0 (acc. IOT) |
| TDS | - | 0 ... 1999 mg/l. 0 bis 199.9 g/l |
| Temperature | -5.0 ... 105.0 °C ± 0.1 °C | -5.0 ... 105.0 °C ± 0.1 °C |
| T _{ref} | 20 °C/25 °C | 20 °C/25 °C |
| Temperature Compensation | nLF | none. nLF. 0.000 ... 3.000 %/K |

Handy case sets for field applications

The ProfiLine handhelds are available as single instruments in a case without measurement accessories, but also as sets supporting individual application requirements.

The case also serves as a small field laboratory.



For more detailed information please visit our web site :

www.WTW.com/en/arming

(For convenience use our QR code).



Set in case

Ordering Information

| Model | Description | Order No. |
|--------------------|---|-----------|
| pH 3110 Set 2 | Easy-to-operate, robust pH/mV-meter with large LCD-display, for mobile routine measurement. Meter in carry case with pH-sensor SenTix® 41, buffer solution STP 4 and STP 7, stand, beaker, short instruction manual, CD-ROM and batteries. | 2AA112 |
| Oxi 3205 Set 1 | Easy-to-use, robust D.O. meter with backlit LCD graphic display, for routine measurement. Meter with carry case including galvanic D.O. probe CellOx® 325, cleaning solution, electrolyte, exchange membrane head, stand, beaker. Including short instruction manual, CD-ROM and batteries. | 2BA101 |
| Oxi 3310 Set 1 | Professional, field proven D.O. meter with backlit graphic display for mobile applications including data logger and USB interface. Meter with carry case including galvanic D.O. probe CellOx® 325, cleaning solution, electrolyte, 3 exchange membrane heads, stand, beaker. Including short instruction manual CD-ROM, batteries, driver software for USB, cable. | 2BA301 |
| Cond 3110 Set 1 | Easy-to-operate, robust conductivity meter with large LCD-display, for mobile routine application for 2- and 4-electrode cells. Meter with carry case including 2-electrode conductivity cell TetraCon® 325, standard solution 1413 µS/cm at 25 °C, stand, beaker, short instruction manual, CD-ROM and batteries. | 2CA101 |
| Cond 3310 Set 1 | Professional, field proven conductivity meter with backlit graphic display for mobile applications including data logger, USB-interface. Meter with carry case including 4-electrode conductivity cell TetraCon® 325, standard solution 1413 µS/cm at 25 °C, stand, beaker, short instruction manual, CD-ROM and batteries, driver software for USB, cable. | 2CA301 |
| pH/Cond 3320 Set 2 | Professional pH/conductivity meter with 2 inputs (DIN, 8 pin socket), backlit graphic display, for mobile application with data logger and USB interface, meter in carry case including SenTix® 41, TetraCon® 325, buffer solution STP 4 and STP 7, conductivity standard 0.01 mol/l KCl. Instruction manual, stand, beaker, CD-ROM, driver software for USB, batteries, cable. | 2EA312 |
| Multi 3320 Set 1 | Professional pH/dissolved oxygen/conductivity meter with 2 inputs (DIN, 8 pin socket), backlit graphic display, for mobile application with data logger and USB interface, meter in field case with SenTix® 41, CellOx® 325, TetraCon® 325, sensor accessories, instruction manual. stand, beaker, CD-ROM, driver software for USB, batteries, cable. | 2FA311 |
| pH/ION 3310 | Professional pH/mV/ISE meter with DIN socket, backlit graphic display, for mobile application with data logger and USB interface. Single instrument including instruction manual, CD-ROM and batteries, cable. | 2GA310 |
| SM Pro | SM Pro Rubber elastic armor for WTW handhelds | 902 780 |

What can Xylem do for you?

We're a global team unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xylem.com



Xylem Analytics Germany Sales GmbH & Co. KG, WTW

Dr.-Karl-Slevogt-Straße 1
D-82362 Weilheim
Germany

Phone: +49 881 183-0
Fax: +49 881 183-420
E-Mail: Info.WTW@Xylem.com
Internet: www.WTW.com

Quotations and Orders
Phone: +49 881 183-324
Fax: +49 881 183-411
E-Mail: Order.WTW@Xylem.com

Technical Information
Phone: +49 881 183-321
Fax: +49 881 183-425
E-Mail: TechInfo.WTW@Xylem.com

Repair Service
Phone: +49 881 183-325
Fax: +49 881 183-414
E-Mail: Service.WTW@Xylem.com

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