



# Starter

Water Analysis Portable Meter



## *Versatile and Portable Water Analysis Products for Wherever Your Work Takes You*

After more than a century of perfecting the art of measurement through our durable weighing products, OHAUS precision is now available in a line of portable water analysis products that includes pH, conductivity, and dissolved oxygen meters that can also test for ORP and TDS. These portable meters offer convenience, reliability and durability in one compact design.

### *Standard Features Include:*

- **Intuitive Software Powers the Starter Series**—Intuitive software and a well-organized display work in tandem to make operating the Starter Series a simple and straightforward task.
- **Compact And Ergonomic Design Creates A User Friendly Experience**—Starter portable products fit comfortably in the palm of your hand. Each also comes equipped with a retractable built-in stand that can be used to prop up the meter on a flat surface.
- **Reliable Calibration Results for Accurate Measurement**—Starter tracks the accuracy of the calibration process right on the display so you can measure with peace-of-mind knowing your results will be highly precise.

# Starter Water Analysis Portable Meters

## Portable Meters Packed with Productive Features

The Starter Series of portable water analysis meters was created with versatility in mind. They can be operated in the lab with the support of the built-in stands or in the field thanks to their lightweight design. With a clear, well-organized LCD screen and five clearly marked keys, utilizing the Starter Series is simple for novices and professionals alike. The portable Starter Series also boasts IP54 protection which shields the meter from damage by water and dust particles and it also offers an integrated labeling area which can be customized for quick identification. Each meter can store 30 sets of data memory and has the ability to quickly recall calibration data and stored information with one quick touch.

### Starter 300 pH Meter

Starter 300 combines portability with precise pH measurement. An ORP or temperature electrode can also be easily connected to provide additional functionality.

- Auto buffer recognition stores calibration data and helps to avoid errors during the calibration process
- Automatic and manual temperature compensation helps ensure accurate readings

### Starter 300C Conductivity Meter

Starter 300C is the reliable and accurate choice for measurement of the conductivity and TDS levels of liquids. With a variety of features that protect the meter from more extreme elements, Starter 300C can be used for a wide variety of applications.

- The 4-pole linear electrode offers a large conductivity range that safeguards itself from polarization and pollution effects
- Automatic temperature compensation with an adjustable temperature coefficient

### Starter 300D Dissolved Oxygen Meter

Starter 300D provides accurate and reliable dissolved oxygen measurement that is critical to aquatic life and water quality.

- Each time the meter is calibrated, icons appear on the display to confirm the accuracy of the calibration process so you can ensure accurate measurement
- Push-button toggling between ppm, mg/L and percentage
- The galvanic electrode can be used immediately after being powered on without the wait time typically associated with dissolved oxygen meters



# Specifications

| Model                    | ST300*   | ST300C*  | ST300D*  |
|--------------------------|--|--|--|
| Measurement Range        | 0.00 – 14.00 pH<br>–1999 – 1999 mV<br>0 °C – 100 °C        | 0.0 µS/cm – 199.9 mS/cm<br>0.1 mg/l – 199.9 g/l (TDS)<br>0 °C – 100 °C   | 0.0 – 199.9%; 200 – 400%<br>0.00 – 19.99; 20.0 – 45.0 mg/L<br>0.00 – 19.99; 20.0 – 45.0 ppm<br>0 – 50 °C |
| Measurement Resolution   | 0.01 pH<br>1 mV<br>0.1°C                                   | Automatic Range<br>0.1°C   | 0.1%; 1%<br>0.1 mg/L; 1mg/L<br>0.01 ppm; 0.1 ppm<br>0.1 °C   |
| Barometric Range         | N/A  | N/A  | 375 – 825 mmHg<br>500 – 1100 mbar<br>500 – 1100 hPa  |
| Barometric Resolution    | N/A  | N/A  | 1 mmHg<br>1 mbar<br>1 hPa  |
| Error Limits             | ± 0.01 pH<br>± 1 mV<br>± 0.5 °C                            | ± 0.5 % of the Measured Value<br>± 0.3°C                                 | ± 1% ; ± 0.3 °C  |
| Calibration              | 3 Points<br>1 Predefined Buffer Group                      | 1 Point<br>3 Predefined Standards  | 1 or 2 Points<br>100% and 0%   |
| Memory                   | 30 Measurements<br>Last Calibration Data                   | 30 Measurements<br>Last Calibration Data                                 | 30 Measurements<br>Last Calibration Data   |
| Power Supply             | 4 AAA<br>> 500 Operating Hours                             | 4 AAA<br>> 250 Operating Hours   | 4 AAA<br>> 250 Operating Hours   |
| Size/Weight              | 90 W × 150 D<br>× 35 H mm / 0.18 kg<br>(Without Batteries) | 90 W × 150 D<br>× 35 H mm / 0.16 kg<br>(Without Batteries)               | 90 W × 150 D<br>× 35 H mm / 0.18 kg<br>(Without Batteries)   |
| Display                  | Liquid Crystal   | Liquid Crystal   | Liquid Crystal   |
| Input                    | BNC, Impedance > 10e+12 Ω<br>Cinch, NTC 30 kΩ              | Mini-Din   | BNC,<br>Cinch, NTC 30 kΩ   |
| Temperature Compensation | ATC & MTC  | ATC, Linear: 0.00 %/°C – 10.00 %/°C<br>Reference Temperature: 20 & 25 °C | ATC & MTC  |
| Salinity Compensation    | NA   | NA   | 0.0 to 50.0 ppt  |
| IP Protection            | IP54   | IP54   | IP54   |
| Housing                  | ABS  | ABS  | ABS  |

\*Portable Meters are available in different packages:

## ST300

| Model   | Description   |
|---------|---|
| ST300-B | 300 Meter with IP54 Sets, Electrode Clip, Wrist Strap and 4 AAA Batteries (Electrode not included)        |
| ST300   | 300 Meter, ST320 3-in-1 Plastic Gel pH Electrode, and pH Buffer Powder Sachet                             |
| ST300-G | ST300-B, ST320 3-in-1 Plastic Gel pH Electrode, pH Buffer Powder Sachet (4.01, 7.00, 10.01), Portable Bag |

## ST300D

| Model    | Description   |
|----------|---|
| ST300D-B | 300D Meter with IP54 Sets, Electrode Clip, Wrist Strap and 4 AAA Batteries (Electrode not included) |
| ST300D   | 300D Meter with STDO11 Galvanic DO Electrode, and STTEMP30 Temperature Electrode                    |
| ST300D-G | ST300D-B with STDO11 Galvanic DO Electrode, STTEMP30 Temperature Electrode, Portable Bag            |

## ST300C

| Model    | Description   |
|----------|---|
| ST300C-B | Starter 300C Meter, Conductivity Standards 1413µS/cm and 12.88mS/cm (20ml bottles), IP54 Sets, Electrode Clip, Wrist Strap, 4 AAA Batteries (Electrode not included)  |
| ST300C   | 300C Meter, with STCON3 4-Pole Conductivity Electrode (70 µS/cm-200ms/cm), 2 Small Bottles of Standard Conductivity Solution - 1413 µS/cm and 12.88ms/cm, IP54 Sets, Electrode Clip, Wrist Strap, 4 AAA Batteries |
| ST300C-G | ST300C-B, STCON3 4-Pole Conductivity Electrode (70 µS/cm - 200 mS/cm), Portable Bag   |



# Starter Water Analysis Portable Meters

## 300 Compatible Electrodes

| Description   | Model    |
|---|----------|
| 3-in-1 Plastic Refillable pH Electrode                            | ST310    |
| 2-in-1 Plastic Refillable pH Electrode                            | ST210    |
| 3-in-1 Plastic Gel pH Electrode                                   | ST320    |
| 2-in 1 Glass Muddy Sample pH Electrode                            | ST230    |
| 2-in-1 Glass Pure Water Sample pH Electrode                       | STPURE   |
| Temperature Electrode   | STTEMP30 |
| Gel Plastic ORP Electrode   | STORP1   |
| Refillable Glass ORP Electrode                                    | STORP2   |
| 2-in-1 Glass Micro Sample pH Electrode, 80 x 5mm                  | STMICRO5 |
| 2-in-1 Glass Micro Sample pH Electrode, 150 x 8mm                 | STMICRO8 |
| 3-in-1 Glass pH Electrode   | ST350    |
| 2-in-1 Glass Double-salt-bridge pH Electrode Can Test Tris-buffer | ST260    |
| 2-in-1 Plastic Flat pH Electrode                                  | STSURF   |

## 300C Compatible Electrodes

| Description  | Model   |
|--|---------|
| 4-Pole Conductivity Electrode (70 $\mu$ S/cm-200mS/cm)           | STCON3* |
| 2-Pole Pure Water Conductivity Electrode (0.02 – 200 $\mu$ S/cm) | STCON7  |

\*In this range 70  $\mu$ S/cm-200mS/cm the measurement accuracy is 0.5%. STCON3 can also measure conductivity value which is below 70  $\mu$ S/cm, the measurement will be less accurate (approximately 1% to 5%).

## 300D Compatible Electrodes

| Description           | Model    |
|-----------------------|----------|
| Temperature Electrode | STTEMP30 |
| Galvanic DO Electrode | STD011   |

## Compliance

- **Electromagnetic Compatibility:** FCC Part 15 Class B; ICES-003 Class B

## Buffers and Accessories

| Description                                 | Item Number | 300 | 300C | 300D |
|---|-------------|-----|------|------|
| pH Buffer Powder Sachet (4.01; 7.00; 10.01) | 83033971    | •   |      |      |
| pH1.68 250ml Solution                       | 30100424    | •   |      |      |
| pH4.01 250ml Solution                       | 30100425    | •   |      |      |
| pH6.86 250ml Solution                       | 30100426    | •   |      |      |
| pH7.00 250ml Solution                       | 30100427    | •   |      |      |
| pH9.18 250ml Solution                       | 30100428    | •   |      |      |
| pH10.01 250ml Solution                      | 30100429    | •   |      |      |
| pH12.45 250ml Solution                      | 30100440    | •   |      |      |
| pH Electrode Reference Electrolyte          | 30059255    | •   |      |      |
| pH Electrode Protection Solution (3M KCl)   | 30059256    | •   |      |      |
| pH Sensor Protection Bottle (10 in bag)     | 30064800    | •   |      |      |
| Cond 10 $\mu$ S/cm 250ml                    | 30100441    |     | •    |      |
| Cond 84 $\mu$ S/cm 250ml                    | 30100442    |     | •    |      |
| Cond 1413 $\mu$ S/cm 250ml                  | 30100443    |     | •    |      |
| Cond 12.88 mS/cm 250ml                      | 30100444    |     | •    |      |
| Dissolved Oxygen Zero Oxygen Chemicals      | 30059257    |     |      | •    |
| IP54 Seal Kit                               | 83032962    | •   | •    | •    |
| Wrist Strap                                 | 83032963    | •   | •    | •    |
| Electrode Clip                              | 83032964    | •   | •    | •    |
| Portable Bag                                | 30031635    | •   | •    | •    |

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