



# Starter Portable Meters

## **Versatile and Portable Water Quality & Electrochemistry Products for your Classroom, Inside or Out**

After more than a century of perfecting the art of accurate measurement through our durable weighing products, OHAUS precision is now available in a line of portable water quality & electrochemistry 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.

- **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 in 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 Portable Meters

## Portable Meters Packed with Productive Features

The OHAUS Starter Series of portable water quality & electrochemistry 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 crisp, well-organized LCD screen and five clearly marked keys, utilizing the OHAUS Starter Series is simple for students and teachers alike. The portable OHAUS Starter Series also boasts IP54 protection which shields the meter from damage by water and dust particles and 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 marries portability with precise pH measurement. ORP, temperature and reference electrodes can also be easily connected to provide additional functionality.

- **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**
- **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 -1999...1999 mV 0 °C...100 °C	0.0 µS/cm...199.9 mS/cm 0.1 mg/L...199.9 g/l (TDS) 0 °C...100 °C	0.0 to 199.9%; 200 to 400% 0.00 to 19.99; 20.0 to 45.0 mg/L 0.00 to 19.99; 20.0 to 45.0 ppm 0 to 50 °C
Measurement Resolution	0.01 pH 1 mV 0.1 °C	Automatic Range 0.1 °C	0.1%; 1% 0.1 mg/L; 1 mg/L 0.01 ppm; 0.1 ppm 0.1 °C
Barometric Range	NA	NA	375 to 825 mmHg 500 to 1100 mbar 500 to 1100 hPa
Barometric Resolution	NA	NA	1 mmHg 1 mbar 1 hPa
Error Limits	± 0.01 pH ± 1 mV ± 0.5 °C	± 0.5 % of the Measured Value ± 0.3 °C	± 1% ; ± 0.3 °C
Calibration	3 Points 1 Predefined Buffer Group	1 Point 3 Predefined Standards	1 or 2 Points 100% and 0%
Memory	30 Measurements Last Calibration Data	30 Measurements Last Calibration Data	30 Measurements Last Calibration Data
Power Supply	4 AAA > 500 Operating Hours	4 AAA > 250 Operating Hours	4 AAA > 250 Operating Hours
Size/Weight	Approximately 90 W x 150 D x 35 H mm / 0.18 kg (Without Batteries)	Approximately 90 W x 150 D x 35 H mm / 0.16 kg (Without Batteries)	Approximately 90 W x 150 D x 35 H mm / 0.18 kg (Without Batteries)
Display	Liquid Crystal	Liquid Crystal	Liquid Crystal
Input	BNC, Impedance > 10e+12 Ω Cinch, NTC 30 kΩ	Mini-Din	BNC, Cinch, NTC 30 kΩ
Temperature Compensation	ATC & MTC	ATC, Linear: 0.00 %/°C...10.00 %/°C 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	300 Meter, ST320 3-in-1 Plastic Gel pH Electrode, and pH Buffer Powder Sachet
ST300-B	300 Meter with IP54 Sets, Electrode Clip, Wrist Strap and 4 AAA Batteries

### ST300C

Model	Description
ST300C	300C Meter, with STCON3 4-Ring 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

### ST300D

Model	Description
ST300D	300D Meter with STDO11 Galvanic DO Electrode, and STTEMP30 Temperature Electrode
ST300D-B	300D Meter with IP54 Sets, Electrode Clip, Wrist Strap and 4 AAA Batteries



# Starter 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
Silver/Silver Chloride Reference Electrode	STREF1
Saturated Calomel (SCE) Reference Electrode	STREF2

## 300C Compatible Electrodes

Description	Model
4-Ring Conductivity Electrode (70 $\mu$ S/cm-200ms/cm)	STCON3

## 300D Compatible Electrodes

Description	Model
Temperature Electrode	STTEMP30
Galvanic DO Electrode	STD011

## Buffers and Accessories

Description	Item Number	300	300C	300D
pH Buffer Powder Sachet (4.01; 7.00; 10.01)	83033971	x		
pH Buffer 4.01 250ml*6	30065083	x		
pH Buffer 7.00 250ml*6	30065084	x		
pH Buffer 9.21 250ml*6	30065085	x		
pH Buffer 10.01 250ml*6	30065086	x		
pH Electrode Reference Electrolyte	30059255	x		
pH Electrode Protection Solution (3M KCl)	30059256	x		
pH Sensor Protector Bottle (10 in bag)	30064800	x		
Standard Conductivity Solution 84uS/cm 250ml*6	30065087		x	
Standard Conductivity Solution 1413uS/cm 250ml*6	30065088		x	
Standard Conductivity Solution 12.88mS/cm 250ml*6	30065089		x	
Dissolved Oxygen Zero Oxygen Chemicals	30059257			x
IP54 Seal Kit	83032962	x	x	x
Wrist Strap	83032963	x	x	x
Electrode Clip	83032964	x	x	x
Portable Bag	83031635	x	x	x



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## Approvals

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.