Convenient Results at Your Fingertips

For over a century, OHAUS has perfected the art of measurement through our line of weighing products. Taking a similar approach to our weighing equipment, OHAUS now delivers a line of pen meters that are durable, practical and affordable. Starter pen meters—the portable solution for on-the-go measurement of pH, oxidation-reduction potential (ORP), conductivity, salinity, total dissolved solids (TDS) and dissolved oxygen (DO). Starter pen meters are the economical option when you are simply looking for accurate measurements with no restrictions.

Standard Features Include:

- **Simple Operation in a Slim and Portable Design**
  Starter pen meters provide what should be expected of a small pen meter. Simple, fast, straightforward, no-frills yet highly accurate operation time and time again.

- **Durably Constructed to Withstand Wear and Tear Resulting from Repetitive Use**
  With durable plastic housing, a protective cap that safeguards the sensor, and an automatic shutdown feature to preserve battery life, the Starter pen meters can endure consistent use in rugged environments.

- **Waterproof Housing Protects the Meters in their Working Environment**
  Equipped with a wrist strap that helps to prevent unintentional dropping, Starter pen meters are constructed with an IP67 waterproof design that can prevent water damage when accidentally dropped into liquid.

STARTER *Pen Meters*

Convenient pH Testing

Two models with varying resolution and accuracy; the ST10 and ST20 offer a convenient way to measure pH, or the relative acidity or alkalinity of a sample at a given temperature. The pH pen meters can be operated with just one hand, freeing up your other hand to handle samples.

pH Meters

Model	ST20	ST10
Range	0.00 – 14.00	0.0 – 14.0
Resolution	0.01 pH	0.1 pH
Accuracy	0.05 pH	0.1 pH
Temperature Range	0.0 – 99.0 °C	NA
Temperature Compensation	Yes	NA
Display	Dual	Single
Calibration	3 Point	N/A
Buffer Group	4.01, 7.00, 10.01	N/A
Automatic Shutdown	6 Minutes of Non-Use	6 Minutes of Non-Use
Batteries	4 AG13 1.5V Micro Alkaline	4 AG13 1.5V Micro Alkaline
Size/Weight	185 × 45 × 38 mm, 110 g	185 × 45 × 38 mm, 110 g

Portable ORP Measurement

ST10R and ST20R can provide measurement of ORP virtually anywhere the need for measurement of the availability of electrons in a liquid exist. Both models provide almost instantaneous results and the ST20R offers the ability to hold the reading right on the display to provide additional time for data logging.

ORP Meters

Model	ST20R	ST10R
Range	-1000mV – 1000mV	-1000mV – 1000mV
Resolution	1mV	1mV
Accuracy	2mV	2mV
Temperature Range	0.0 - 99.0 °C	N/A
Temperature Compensation	Yes	N/A
Display	Dual	Single
Calibration	N/A	N/A
Automatic Shutdown	6 Minutes of Non-Use	6 Minutes of Non-Use
Batteries	4 AG13 1.5V Micro Alkaline	4 AG13 1.5V Micro Alkaline
Size/Weight	185 × 45 × 38 mm, 110 g	185 × 45 × 38 mm, 110 g

STARTER *Pen Meters*

Productive Conductivity Meters

Starter pen meters are the choice for basic testing needs of the total ionic concentration within a solution. With six models that can measure within three different conductivity ranges, there is a Starter conductivity meter for every application that requires portable operation and quick results.

Conductivity Meters

Model	ST20C-C	ST20C-B	ST20C-A
Range	0.00 – 19.99 mS/cm	0 – 1999 µS/cm	0.0 – 199.9 µS/cm
Resolution	10 µS/cm	1 µS/cm	0.1 µS/cm
Accuracy	±1.5 % FS	±1.5 % FS	±1.5 % FS
ATC	With Temperature Display	With Temperature Display	With Temperature Display
Display	Dual	Dual	Dual
Automatic Shutdown	6 Minutes of Non-Use	6 Minutes of Non-Use	6 Minutes of Non-Use
Batteries	4 AG13 1.5V Micro Alkaline	4 AG13 1.5V Micro Alkaline	4 AG13 1.5V Micro Alkaline
Size/Weight	185 × 45 × 38 mm, 110 g	185 × 45 × 38 mm, 110 g	185 × 45 × 38 mm, 110 g

Model	ST10C-C	ST10C-B	ST10C-A
Range	0.00 – 19.99 mS/cm	0 – 1999 µS/cm	0.0 – 199.9 µS/cm
Resolution	10 µS/cm	1 µS/cm	0.1 µS/cm
Accuracy	± 2.5 % FS	± 2.5 % FS	± 2.5 % FS
ATC	Without Temperature Display	Without Temperature Display	Without Temperature Display
Display	Single	Single	Single
Automatic Shutdown	6 Minutes of Non-Use	6 Minutes of Non-Use	6 Minutes of Non-Use
Batteries	4 AG13 1.5V Micro Alkaline	4 AG13 1.5V Micro Alkaline	4 AG13 1.5V Micro Alkaline
Size/Weight	185 × 45 × 38 mm, 110 g	185 × 45 × 38 mm, 110 g	185 × 45 × 38 mm, 110 g

Simple Salinity Measurement

Starter pen meters combine all of the most useful features for measuring salinity in a liquid medium. With the combination of quality construction and sturdy design, Starter pen meters will provide durable operation in even the toughest environments.

Salinity Meters

Model	ST20S	ST10S
Range	0.0 – 80.0 ppt	0.0 – 10.0 ppt
Resolution	0.1 ppt	0.1 ppt
Accuracy	± 1.5 % FS	± 2.5 % FS
ATC	With Temperature Display	Without Temperature Display
Display	Dual	Single
Automatic Shutdown	6 Minutes of Non-Use	6 Minutes of Non-Use
Batteries	4 AG13 1.5V Micro Alkaline	4 AG13 1.5V Micro Alkalin
Size/Weight	185 × 45 × 38 mm, 110 g	185 × 45 × 38 mm, 110 g

STARTER *Pen Meters*

Multi Parameter Meter

The OHAUS ST20M is a multi parameter pen meter that directly measures pH, conductivity and temperature, as well as provides conversion measurements for TDS and Salinity. These fully waterproof pen meters combine measurement capabilities of two testers in one convenient pocket-sized unit.

Great for water, laboratory or plant use, the ST20M features a single-junction pH electrode and a pin-style conductivity probe for longer usage and durability. The replaceable electrode module saves you money by reusing the meter body. Advanced features include auto-shutoff, low-battery indicator, and simple and easy calibration.

- Measures 5 parameters including pH, Conductivity, TDS, Salinity, and Temperature

- Waterproof rated to IP67

- Automatic Temperature Compensation

- Auto shutoff with low battery indicator

- ST20M meter includes electrode, protective sensor cap, four AG13 1.5V batteries, and wrist strap.

ST20M

Model		ST20M-B	ST20M-C
Measurement Range	pH	0 - 14	
	Conductivity	0 … 1999 µS/cm	0 … 19.99 mS/cm
	TDS	0 … 1000 mg/L	N/A
	Salinity	N/A	0.0 – 10.0 ppt
	Temperature	0 - 99.0 °C	
Resolution	pH	0.01 pH	
	Conductivity	1µS/cm	0.01 mS/cm
	TDS	1 mg/L	NA
	Salinity	N/A	0.1 ppt
	Temperature	0.1 °C	
Accuracy	pH	± 0.05 pH	
	Conductivity	± 2 % Full Scale	
	TDS	± 2 % Full Scale	N/A
	Salinity	N/A	± 2 % Full Scale
	Temperature	± 0.5 °C	
ATC		Yes, with temperature display	
ATC Range		0 - 45 °C	
Calibration	pH	3 point	
	Conductivity	1 point	
	TDS	N/A	
	Salinity	N/A	
IP Grade		IP67	
Dimensions		185 × 45 × 38 mm	
Weight		110 g	
Batteries		4 × 1.5V	
Battery Life		100 hours	
Warranty		1 year	

STARTER *Pen Meters*

Simple and Fast Dissolved Oxygen (DO) Measurement

The perfect DO meter for every application that requires portable operation and quick results. With IP67 waterproof design and automatic shutdown feature that preserves battery life, the Starter DO meter can endure consistent use in rugged environments.

DO Meter

Model	ST20D
Measurement Range	0.0 – 19.9 mg/L
Resolution	0.1 mg/L
Accuracy	± 0.5 mg/L
Batteries	4 AG13 1.5V Micro Alkaline
Dimension	185 × 42 × 37 mm
Weight	90 g
Auto-off	After 15 Minutes of Inactivity
Auto Temperature Compensation Range	5 to 45 °C (41 to 113 °F)
Materials	ABS

Replacement Electrodes

Item No.	Description	Compatible with
30087992	Electrode, pH10 ST	ST10
30087993	Electrode, pH20 ST	ST20
30087994	Electrode, CT10A ST	ST10C-A, ST10T-A
30087995	Electrode, CT10B ST	ST10C-B, ST10T-B
30087996	Electrode, CS10C ST	ST10C-C, ST10S
30087997	Electrode, CT20A ST	ST20C-A, ST20T-A
30087998	Electrode, CT20B ST	ST20C-B, ST20T-B
30087999	Electrode, CS20C ST	ST20C-C, ST20S
30088020	Electrode, R10 ST	ST10R
30088021	Electrode, R20 ST	ST20R
30222083	Electrode, D20 ST	ST20D
30222084	Membrane & Electrolyte, ST20D	ST20D
30393203	Electrode ST20M-B	ST20M-B
30393204	Electrode, ST20M-C	ST20M-C

STARTER *Pen Meters*

Complete TDS Meters

When you need reliable and accurate measurement of TDS, the Starter pen meter offer a great value in a portable and compact design. Bring the Starter TDS Meter wherever your need to measure the combined content of all organic and inorganic substances in a liquid takes you.

TDS Meters

Model	ST20T-B	ST20T-A	ST10T-B	ST10T-A
Range	0–1000 mg/L	0.0–100.0 mg/L	0–1000 mg/L	0.0–100.0 mg/L
Resolution	1 mg/L	0.1 mg/L	1 mg/L	0.1 mg/L
Accuracy	±1.5 % FS	±1.5 % FS	±2.5 % FS	±2.5 % FS
ATC	With Temperature Display	With Temperature Display	Without Temperature Display	Without Temperature Display
Display	Dual	Dual	Single	Single
Automatic Shutdown	6 Minutes of Non-Use	6 Minutes of Non-Use	6 Minutes of Non-Use	6 Minutes of Non-Use
Batteries	4 AG13 1.5V Micro Alkaline	4 AG13 1.5V Micro Alkaline	4 AG13 1.5V Micro Alkaline	4 AG13 1.5V Micro Alkaline
Size/Weight	185 × 45 × 38 mm, 110 g	185 × 45 × 38 mm, 110 g	185 × 45 × 38 mm, 110 g	185 × 45 × 38 mm, 110 g

Pen Meter Selector Guide

Measuring Parameter	Pen Meters					
	ST10	ST20	ST20M-B	ST20M-C	ST10C	ST20C
pH	●	●	●	●		
Conductivity			●	●	●	●
TDS			●			
ORP						
Salinity				●		
Resistivity						
DO						
Temperature		●	●	●		●

Measuring Parameter	Pen Meters						
	ST10T	ST20T	ST10S	ST20S	ST10R	ST20R	ST20D
pH							
Conductivity							
TDS	●	●					
ORP					●	●	
Salinity			●	●			
Resistivity							
DO							●
Temperature		●		●		●	