



1500 and 2000 Series Benchtop Meters

Versatile benchtop meters
for any laboratory

- Seamless method compliance for EPA, ISO, and other global regulatory standards
- Developed using extensive feedback from laboratory staff
- Various configurations available to meet the demands of measuring pH, ORP/mV, ions, conductivity, TDS, salinity, resistivity, dissolved oxygen, and BOD parameters





1500 and 2000 Series Benchtop Meters

Our multiparameter benchtops include functionality to meet the highly specific and/or broad ranging needs of wastewater, drinking water, food and beverage, chemical and pharmaceutical testing labs.

Key features

- Various configurations available to meet the demands of measuring pH/mV, EC, Ion, PC, PD, DO, and BOD parameters
- Large display and small footprint—ideal for labs with limited bench space
- Automatic functions like buffer recognition and auto calibration for ease of use at any skill level
- Available as a kit so you are ready to calibrate and measure right out of the box!

Audit trail and regulatory compliance functions (2000 series only)

- Automatic record retention and accessibility for continuous compliance with regulatory requirements
- High-capacity internal memory for capture and storage of 2000 data points with time-and-date stamp
- Time-based automatic data log with GLP-compliant real-time clock—lets you capture and store data based on a defined time interval
- Password access protection secures the setup mode from unauthorized access

Visit our website for additional information and valuable water quality measurement tips to help you obtain optimal results in your laboratory.



Comparison of 1500 Series and 2000 Series Meters

	1500 Series	2000 Series
Level	Entry level	Research grade
Parameters	pH, ORP/mV, EC, PC	pH, ORP/mV, Ion, EC, PC, DO, PD
Resolution	0.01	0.001
Compliance	1000 data points	2000 data points
	Data logging with download	Data logging with download
	—	Real-time clock
	—	GLP compliant
	—	Password protection

EC = Conductivity, TDS, Salinity, Resistivity

PC = pH, ORP/mV, Conductivity, TDS, Salinity, Resistivity

PD = pH, ORP/mV, Dissolved Oxygen



1500 Series Benchtop Meters

Comparison of Measurement Capabilities by Model

Parameters			Models		
			PH 1500	EC 1500	PC 1500
pH	Range	-2.00 to 16.00 pH	•		•
	Resolution	0.01 pH	•		•
	Accuracy	±0.01 pH	•		•
	Calibration	Up to 5 (USA, NIST); up to 6 (DIN)	•		•
ORP	Range	±2000.0 mV	•		•
	Resolution	0.1 mV (< ±1000 mV), 1 mV (≥ ±1000mV)	•		•
	Accuracy	±0.3 mV (< ±1000 mV), 0.3% of reading (≥ ±1000mV)	•		•
	Calibration	Yes, up to ±200 mV	•		•
Conductivity	Range	0.00 µS/cm to 200.0 mS/cm, autoranging		•	•
	Resolution	0.01, 0.1, 1 µS; 0.01, 0.1 mS		•	•
	Accuracy	±0.6% full scale; ±1.5% full scale >18.0 mS/cm		•	•
	Calibration	Up to 4 (auto); up to 5 (manual)		•	•
TDS	Range	0.00 ppm to 100 ppt		•	•
	Resolution	0.01, 0.1, 1 ppm; 0.01, 0.1 ppt		•	•
	Accuracy	±0.1% full scale		•	•
Salinity	Range	0.0 to 100.0 ppt; 0.00 to 10.00%		•	•
	Resolution	0.1 ppt; 0.01%		•	•
	Accuracy	±0.2% full scale		•	•
Resistivity	Range	0.00 Ω·cm to 20.0 MΩ·cm		•	•
	Resolution	0.5% full scale		•	•
	Accuracy	±0.6% full scale; ±1.5% full scale >1.80 MΩ·cm		•	•
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	Yes, ±10.0 °C (±18.0 °F) range in 0.1 °C increments	•	•	•



Additional Water Quality Standards and Solutions for Benchtop Meters

Description	Item number
pH buffer standard pack: 500 mL each of 4.01 (red), 7.00 (yellow), and 10.01 (blue)	05942-10
pH electrode storage solution, 500 mL	00653-04
pH electrode cleaning solution, 500 mL	00653-06

Description	Item number
Conductivity and TDS standard, 84 µS, 500 mL	00653-16
Conductivity and TDS standard, 1413 µS, 500 mL	00653-18
Conductivity and TDS standard, 2764 µS, 500 mL	00653-20
Conductivity and TDS standard, 12,880 µS, 500 mL	00606-10
Conductivity probe storage solution, 500 mL	00652-80



1500 Series Benchtop Meters

Specifications

Data logging: 1000 data points
Automatic data logging: yes
Real-time clock: no
Date-and-time stamp: no
Measurement modes: auto stable, auto hold, real time
Electrode status: on-screen display
Calibration alarm: no
Password setting: no
Software upgradeable: no

PC/printer communication: phono jack (USB/RS-232)
Meter inputs: BNC, phono (ATC), DC sockets
Display: LCD with backlight
Auto shutoff: yes, programmable up to 30 minutes
Diagnostics: yes
Power: 100 to 240 VAC, 50/60 Hz
Dimensions (L x W x H): 15.5 x 15.0 x 6.7 cm (6.1 x 5.9 x 2.6 in.)

Ordering Information




Model	Parameters	Meter	Kit
PH 1500	pH, ORP/mV, temperature	35419-41	35419-40
EC 1500	Conductivity, TDS, salinity, resistivity, temperature	35419-46	35419-45
PC 1500	pH, ORP/mV, conductivity, TDS, salinity, resistivity, temperature	35419-51	35419-50

Meter comes with integrated electrode holder and universal power adapter (with six plugs). Kit option adds on electrode(s) or probe(s), and calibration solutions.

Related Products

Description	Item number
All-in-one pH electrode with ATC; 0 to 14 pH range	35419-42
Conductivity probe with temperature element; K = 1.0, 0.1 mS/m to 10 S/m range	35419-47
ORP electrode, 1-m cable, BNC connector	35419-82





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2000 Series Benchtop Meters

Comparison of Measurement Capabilities by Model

Parameters			Model					
			PH 2000	ION 2000	EC2000	PC 2000	DO 2000	PD 2000
pH	Range	-2.000 to 20.000 pH	•	•		•		•
	Resolution	0.001, 0.01, 0.1 pH	•	•		•		•
	Accuracy	±0.003 pH	•	•		•		•
	Calibration	Up to 5 (USA, NIST, NIST2); up to 6 (DIN, custom)	•	•		•		•
ORP	Range	±2000.0 mV	•	•		•		•
	Resolution	0.1 mV	•	•		•		•
	Accuracy	±0.2 mV	•	•		•		•
	Calibration	Yes, up to ±200 mV	•	•		•		•
ISE	Range	0.000 µg/L to 9999 g/L		•		•		•
	Resolution	4 Significant digits		•		•		•
	Accuracy	±0.3% full scale or ±0.2 mV, whichever is higher		•		•		•
	Calibration	Up to 5		•		•		•
Conductivity	Range	0.000 µS/cm to 2.000 S/cm, autoranging			•	•		
	Resolution	0.05% full scale			•	•		
	Accuracy	±0.6% full scale; ±1.5% full scale >18.0 mS/cm			•	•		
	Calibration	Up to 4 (auto); up to 5 (manual)			•	•		
TDS	Range	0.01 mg/L (ppm) to 100 g/L (ppt)			•	•		
	Resolution	0.01, 0.1, 1			•	•		
	Accuracy	±0.1% full scale			•	•		
	Calibration	Up to 4 (auto); up to 5 (manual)			•	•		
Salinity	Range	0.0 to 100.0 ppt; 0.00 to 10.00%			•	•		
	Resolution	0.1 ppt; 0.01%			•	•		
	Accuracy	±0.2% full scale			•	•		
Resistivity	Range	0.000 Ω•cm to 20.0 MΩ•cm			•	•		
	Resolution	0.5% full scale			•	•		
	Accuracy	±0.6% full scale; ±1.5% full scale >1.80 MΩ•cm			•	•		
DO	Range	0.0 to 60.00 mg/L; 0.0 to 600.0%					•	•
	Resolution	0.01 mg/L; 0.1%					•	•
	Accuracy	±0.1 mg/L; ±1.0%					•	•
	Calibration	Up to 2					•	•
	BOD	5-day BOD with seed correction option					•	•
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	Yes, ±10.0 °C (±18.0 °F) range in 0.1 °C increments	•	•	•	•	•	•

2000 Series Benchtop Meters

Specifications

Data logging: 2000 data points

Automatic data logging: yes

Real-time clock: yes

Date-and-time stamp: yes

Measurement modes: auto stable, auto hold, real time

Electrode status: on-screen display

Calibration alarm: yes, programmable up to 90 days

Password setting: yes

Software upgradeable: yes

PC/printer communication: phono jack (USB/RS-232)

Meter inputs: BNC, phono (ATC), DC sockets

Display: 12.7 cm (5 in.) custom LCD with backlight

Auto shutoff: yes, programmable up to 30 minutes

Diagnostics: yes

Power: 100 to 240 VAC, 50/60 Hz

Dimensions (L x W x H): 15.5 x 15.0 x 6.7 cm
(6.1 x 5.9 x 2.6 in.)



Ordering Information

Model	Parameters	Meter	Kit
PH 2000	pH, ORP/mV, temperature	35419-55	35419-54
ION 2000	pH, ORP/mV, ISE, temperature	35419-72	35419-70
EC 2000	Conductivity, TDS, salinity, resistivity, temperature	35419-62	35419-60
PC 2000	pH, ORP/mV, conductivity, TDS, salinity, resistivity, temperature	35419-67	35419-65
DO 2000	DO, BOD, temperature	35419-76	35419-74
PD 2000	pH, ORP/mV, ISE, DO, BOD, temperature	35419-80	35419-78

Meter comes with integrated electrode holder and universal power adapter (with six plugs). Kit option adds on electrode(s) or probe(s), BOD stirrer (for DO and PD only), and calibration solutions.

Related Products

Description	Item number
All-in-one pH electrode with ATC; 0 to 14 pH range	35419-52
Conductivity probe with temperature element; K = 1.0, 0.1 mS/m to 10 S/m range	35419-47
ORP electrode, 1-m cable, BNC connector	35419-82
Dissolved oxygen sensor	35419-75
Dissolved oxygen tip	35419-79
BOD stirrer with holder for DO tip	35419-77

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