The Versatile Multi-Parameter Bench Meter

Save time, space and money with the Starter 3100M Bench Meter, which combines all your pH, ORP, conductivity, TDS, salinity, resistivity, and temperature measurements—in one smart device. Ideal for a wide range of lab applications, the ST3100M is incredibly easy to use. Equipped with software to ensure the reliability of your readings, and RS232 connectivity to store and transfer data conveniently, the ST3100M is a great addition to your lab.

Standard Features Include:

- **Equipped with Software to Ensure the Reliability and Accuracy of Your Readings**
  Auto temperature compensation, auto buffer recognition, six pH buffer groups, five conductivity standards and automatic/manual endpoints ensure accurate and stable measurement.

- **User-Friendly Features Offer Ease of Operation and Versatility**
  An adjustable electrode holder, a large backlit LCD for optimal viewing of results, and a Quick Guide with set-up and navigation info combine to make ST3100M a truly user-friendly experience.

- **Store and Transfer Data Conveniently with RS232 Connectivity**
  Documenting data is made efficient with a 99-item memory for pH and conductivity measurements. RS232 interface allows you to connect to an external device such as a printer to store or transfer data.

Starter 3100M *Multi-Parameter Bench Meter*

Model		ST3100M
pH	Measurement Range	-2.00 to 20.00 pH
	Resolution	0.01 pH
	Accuracy	± 0.01 pH
	Calibration	3 point, 6 buffer groups for pH
	Temperature Compensation	Automatic or manual/0 °C to 100 °C for pH
	Input	BNC, impedance >l0e+12 Ω
Conductivity	Measurement Range	0.01µS/cm to 199.9 mS/cm
	Resolution	0.01µS/cm auto-range
	Accuracy	± 0.5% full-scale reading
	Calibration	5 pre-defined conductivity standard points
	Temperature Compensation	Automatic or manual/0 °C to 100 °C for pH
	Input	Mini-DIN
	Temperature Coefficient Range	0.00 %/°C to 10.00 %/°C
	Reference Temperature	20 or 25 °C
Temperature	Measurement Range	-5 °C to 110 °C
	Resolution	0.1 °C
	Accuracy	± 0.3 °C
	Input	Cinch, NTC 30 kΩ
TDS	Measurement Range	0.1mg/1 to 199.9 g/1 (rDS)
	Resolution	0.01 mg/L auto-range
Salinity	Measurement Range	0 to 100 psu
	Resolution	0.01 psu
Resistivity	Measurement Range	0-20MΩ•cm (resistivity)
	Resolution	0.01 Ω•cm auto-range
Memory		99 sets of pH and conductivity data, last calibration data
Power/Battery		110-240V / 50Hz,12 VDC
Size/Weight (W×D×H)		220 × 175 × 78 mm (approx.)/0.95 kg
Display		LCD with backlight
Communication		RS232 (included), USB (not included)

Item #	Electrodes
83033967	pH electrode ST320
83033965	pH electrode ST310
83033969	pH electrode STPURE
83033968	pH electrode ST230
83033966	pH electrode ST210
30129354	pH electrode ST350
30129357	pH electrode ST260
30240974	pH electrode ST270
30038553	ORP electrode STORP2
30038555	ORP electrode STORP1
30087566	pH electrode STMICRO5
30087569	pH electrode STMICRO8
83033972	Conductivity probe STCON3
30080693	Conductivity probe STCON7

Item #	Solutions
30100424	Buffer pH 1.68, 250 ml
30100425	Buffer pH 4.01, 250 ml
30100426	Buffer pH 6.86, 250 ml
30100427	Buffer pH 7.00, 250 ml
30100428	Buffer pH 9.18, 250 ml
30100429	Buffer pH 10.01, 250 ml
30100440	Buffer pH 12.45, 250 ml
30100441	Standard conduct 10 µS/cm, 250 ml
30100442	Standard conduct 84 µS/cm, 250 ml
30100443	Standard conduct 1413 µS/cm, 250 ml
30100444	Standard conduct 12.88 mS/cm, 250 ml

Other Standard Features & Equipment
ABS housing, in-use cover, mechanical keys, three point calibration (pH), electrode condition icon, toggle button, compact design
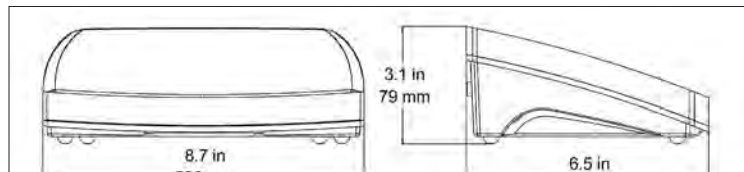
Compliance
• **Product Safety:** UL 60950-1 (AC adapter); CSA C22.2 60950-1 (AC adapter)
• **Electromagnetic Compatibility:** FCC Part 15 Class B; ICES-003 Class B

Accessories
Stand-alone Electrode Holder 30058733
In-Use Cover. 30058734
SF40A Printer 30045641
RS232 Interface, Scout (Mini-DIN to RS232 cable). 30268982
USB Interface Kit 30268984

Dimensions

Packages
Available in three configurations

ST3100M-B
ST3100M bench meter, stand-alone electrode holder, in-use-cover

ST3100M-F
ST3100M-B content; ST310, STCON3, pH powder sachet set, 1413 uS/cm and 12.88 mS/cm solution (20ml bottle)

ST3100M-N
ST3100M-B content; ST230, STTEMP30, STCON3, pH powder sachet set, 1413 uS/cm and 12.88 mS/cm

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*ISO 9001:2008 Registered Quality Management System

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