AQUASEARCHER™

AB23 Series Benchtop Meter

TECHNICAL ADVANTAGES
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AB23PH

AB23EC

Simple-to-Use Benchtop Meter Designed for Easy Sample Measurement

Designed with a large LCD Display and six instructional menu buttons, the AB23 series bench meter is simple and straightforward. A 99-item memory for measurements ensures efficient data collection. A stand-alone electrode holder with a small base provides the user greater flexibility when running experiments and makes the AB23 benchtop meter a perfect space saving meter for your lab.

Unique Features:

- With six instructional menu buttons, auto buffer recognition or auto temperature compensation, AB23 series is an easy and straightforward meter for measurement.
- Large 5-inch bright LCD display with complete measurement information simplifies operation and allows you to monitor the results from a distance.
- Featuring a compact stand-alone electrode holder, AB23 series increases the flexibility of experiments and fits ideally in any lab.

AQUASEARCHER™ *AB23 Benchtop Meter*

Specifications

Model		a-AB23PH	a-AB23EC
pH	Measuring Range	0.00 to 14.00 pH	n/a
	Resolution	0.01 pH	n/a
	Selectable Resolution	No	n/a
	Accuracy	± 0.01 pH	n/a
	Pre-Defined Buffer Groups	2	n/a
ORP, Redox	Measuring Range	± 1999 mV	n/a
	Resolution	1 mV	n/a
	Accuracy	± 1 mV	n/a
	Units	mv	n/a
Conductivity	Measuring Range	n/a	0.01 µS/cm to 19.99 µS/cm 20 µS/cm to 199.9 µS/cm 200 µS/cm to 1999 µS/cm 2.00 mS/cm to 19.99 mS/cm 20.0 mS/cm to 199.9 mS/cm
	Resolution	n/a	0.01 µS/cm minimum; auto-range
	Accuracy	n/a	± 1 % Reading ± 3 LSD*
	Reference Temperature	n/a	20 °C, 25 °C
	Cell Constants	n/a	0.08 to 2.0 cm-1
	Temperature Compensation	n/a	Linear (0 to 10.0%/ºC), off
TDS	Measuring Range	n/a	0.1 mg/L to 199.9 g/L
	Resolution	n/a	0.01 mg/L minimum, auto-range
	Accuracy	n/a	± 1 % Reading ± 3 LSD*
	TDS Factor Range	n/a	Linear, 0.04 to 10.00, default 0.5
Practical Salinity	Measuring range	n/a	0 to 99.9 psu
	Resolution	n/a	0.01 psu minimum, auto-range
	Accuracy	n/a	± 1 % Reading ± 3 LSD*
Temperature	Measuring Range	0.0 to 100.0 °C	
		32.0 °F to 212.0 °F	
	Resolution	0.1 °C, 0.1 °F	
	Accuracy	± 0.5 °C, ±0.5 °F	
	Calibration	No	
Calibration	Calibration points	Up to 3 points, 6 pH buffers available (1.68, 4.01, 6.86, 7.00, 9.18, 10.01, 12.45)	1 point cell constant calibration; 4 conductivity standard solutions available (10, 84, 1413 µS/cm and 12.88mS/cm)
	Calibration Sign	Face Sign	
	Calibration mode	Linear	
Meter Specifications	Display Type	5" segment LCD with backlight	
	Measurement End-point Modes	Auto-stop, Continuous	
	Datalog for measurement	99 sets	
	Datalog for calibration	Last calibration	
	Keypad	Membrane	
	pH electrode input	BNC	
	Conductivity input	Mini-Din	
	Temperature input	Cinch, NTC 30 kΩ	
	Installation Overvoltage	Category II	
	Pollution	Degree 2	
	Power Supply	Universal, 100-240 VAC, 50-60 Hz	
	Ambient Operating	5 to 40 ˚C, 5 to 80 %, non-condensing	
	Warranty	1 year	

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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
30059255	Reference Electrolyte (3M KCl Solution Saturated AgCl, 30 mL)
30059256	pH Electrode Protection Solution (3M KCl, 125 mL)
30100441	Conductivity Standard Solution 10 µS/cm, 250 mL
30100442	Conductivity Standard Solution 84 µS/cm, 250 mL
30393269	Conductivity Standard Solution 500 uS/cm 250 mL
30100443	Conductivity Standard Solution 1413 µS/cm, 250 mL
30100444	Conductivity Standard Solution 12.88 mS/cm, 250 mL

Item #	Electrodes
30129354	pH electrode ST350
83033967	pH electrode ST320
83033965	pH electrode ST310
30393265	pH electrode ST272
30240974	pH electrode ST270
30129357	pH electrode ST260
83033968	pH electrode ST230
83033966	pH electrode ST210
30087566	pH electrode STMICRO5
30087569	pH electrode STMICRO8
30129470	pH electrode STSURF
83033969	pH electrode STPURE
30038555	ORP electrode STORP1
30038553	ORP electrode STORP2
30059253	Reference Electrode STREF1
83033972	Conductivity probe STCON3
30080693	Conductivity probe STCON7
83033970	Temperature probe STTEMP30

Packages Available in four configurations

a-AB23PH-B	a-AB23PH-F	a-AB23EC-B	a-AB23EC-F
- a-AB23PH Benchtop Meter, - Stand-Alone Electrode Holder	- a-AB23PH-B Content - ST320 pH Electrode - pH Buffer Mini Kits (4 × 50mL)	- a-AB23EC Benchtop Meter - Stand-Alone Electrode Holder	- a-AB23PH-B Content - STCON3 Probe - Conductivity Standard Kits (1413 uS/cm, 4 × 50mL)

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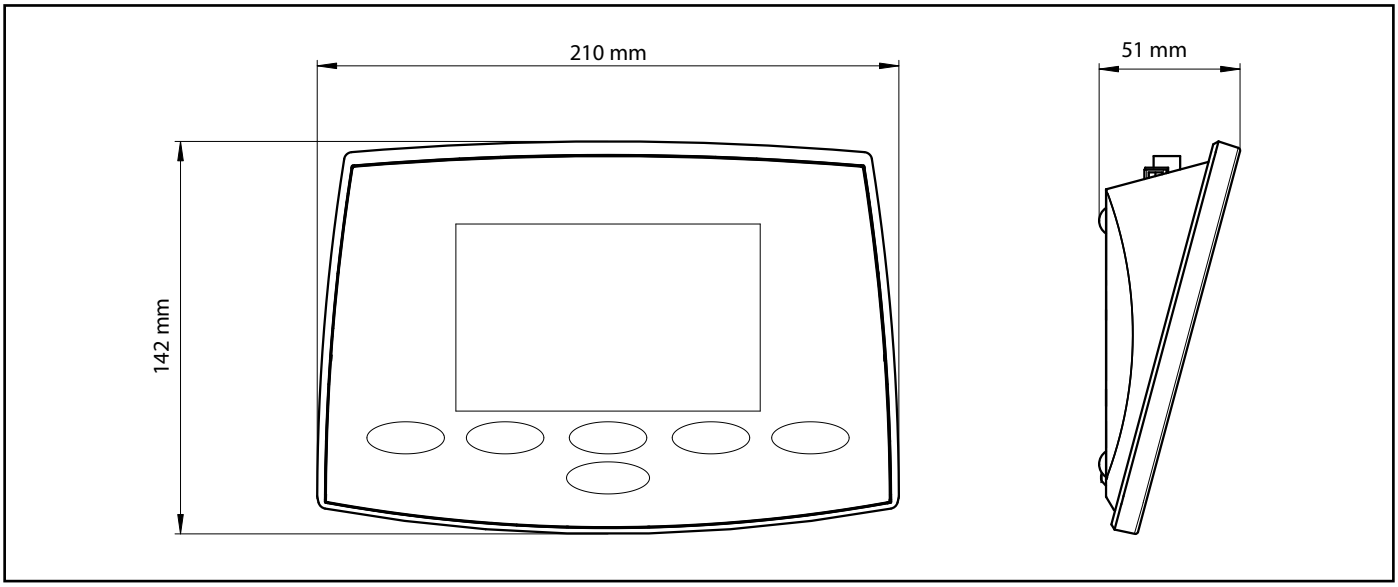
Outline Dimensions



Other Features and Equipment

- **Application:**
  AB23PH: pH, oxidation-reduction potential (ORP) with Temperature Measurements
  AB23EC: Conductivity, Total Dissolved Solids (TDS), Salinity with Temperature Measurements
- **Operation:** AC adapter (included)
- **Construction:** ABS housing, mechanical keys, standalone electrode holder
- **Design Features:** Auto buffer recognition, three point calibration, electrode condition icon

Compliance

- **Product Safety:** IEC/EN 61010-1
- **Electromagnetic Safety:** IEC/EN 61326-1 Class B, basic environments; FCC Part 15 Class A; Canada ICES-003 Class A
- **Compliance Marks:** CE, RCM
- **Others:** WEEE, RoHS

Accessories

Electrode holder AB23 30661424
Stirrer Compact AS20 30661425

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The management system governing the manufacture of this product is ISO 9001:2015 certified.

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