

AQUASEARCHERTM AB33 Series Benchtop Meters



Highly Reliable and User-Friendly Benchtop Meter for Standard Laboratory Applications

The next step in the evolution of OHAUS's original Starter Series, the all-new AquaSearcher[™] AB33 benchtop meter is designed to be reliable, efficient, and user-friendly. The i-Steward ensures repeatable and consistent measurement accuracy for optimal peace of mind. The 6.5 inch LCD display and touch keypad makes changing the parameters, executing setup, and performing calibration as simple as using a smartphone.

Unique Features:

- With multifunctional touch keypads, AB33 makes measurement simple and fast within 3 steps. The intelligent i-Steward monitors the condition of electrodes, ensuring accuracy of the results.
- Auto endpoint mode and auto buffer recognition makes pH calibration easy. Auto temperature compensation, adjustable TDS factor and two kinds of cell conductivity probe compatibility are all features well suited for universal laboratory applications.
- Able to store up to 1000 items in its internal memory, AB33 allows for efficient data documentation. Standard RS232 and USB interface allows connection to external devices for expanded storage.

Distributed by: Safety Emporium PO Box 1003 Blackwood, NJ 08012 Ph: (866) 326-5412 toll-free Fax: (856) 553-6154 esupport@safetyemporium.com www.safetyemporium.com

AQUASEARCHER™ *AB33* Benchtop Meters

i-Steward Indicators include the pH electrode condition, "Electrode Dirty/Broken," and reminder when meter needs recalibration. On-screen text prompts, menu-specific function keys and a multilanguage interface shown on a 6.5" large display.

Three capacitive touch keys that change based upon use ensures the buttons are never clogged with sample residue. Most of the operation can be done within 3 steps.

Auto-Stop holds a stable reading. Continuous shows changing readings, perform up to a 3-point pH calibration using automatic buffer recognition of 3 predefined buffer groups, selectable cell constant allows for use with 2- or 4-cell conductivity cells to measure from ultrapure water to sewage.

Adjustable TDS Factor - The factor that relates conductivity to total dissolved solids is based on the type of sample being measured. To have correct temperature compensation when measuring conductivity, the linear compensation coefficient adjusts by automatic temperature compensation.

Selectable reference temperatures of 20 or 25 °C for temperature compensated conductivity readings.

A 1000-item memory for measurements and calibration trail makes for efficient data documentation. Records are associated with date and time for good traceability.

Standard RS232 and USB interface allows for connection to external devices such as a printer or computer for transfer and storage of data.

A standalone adjustable electrode holder provides full flexibility for different types of electrodes.

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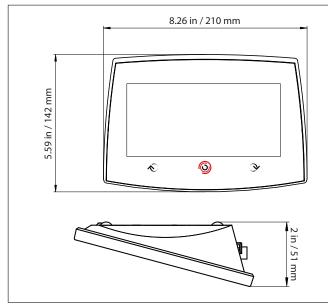
AQUASEARCHERTM AB33 Benchtop Meters

Specifications

Model		a-AB33PH	a-AB33EC	a-AB33M1		
	Measuring Range	-2.00 to 16.00 pH	n/a	-2.00 to 20.00 pH		
	Resolution	0.1/0.01 pH	n/a	0.1/0.01 pH		
рН	Selectable Resolution	Yes	n/a	Yes		
	Accuracy	± 0.01 pH	n/a	± 0.01 pH		
	Pre-Defined Buffer Groups	3	n/a	5		
	Measuring Range	±2000.0 mV	n/a	±2000.0 mV		
ORP, Redox	Resolution	1 mV	n/a	0.1mV		
	Accuracy	± 1 mV	n/a	±0.5 mV		
	Units	mV, RmV	n/a	mV, RmV		
	Measuring Range	n/a	0.001μS/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 10.00 mS/cm	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 2.00 mS/cm to 500.0 mS/cm		
Conductivity	Resolution	n/a	0.001 µS/cm minimum; auto-range	0.01 µS/cm minimum; auto-range		
conductivity	Accuracy	n/a	± 0.5 % Reading ± 2 l	Least Signficant Digit		
	Reference Temperature	n/a	20 °C, 25 °C			
	Cell Constants	n/a	0.01 to 10.00 cm-1 0.001 to 10.00 cm-1			
	Temperature Compensation	n/a	Linear (0 to 1	0.0%/°C), off		
	Measuring Range	n/a	0.1 mg/L to 200 g/L	0.1mg/L to 199.9 g/L		
	Resolution	n/a	0.01 mg/L minin	num, auto-range		
TDS	Accuracy	n/a	± 0.5 % Reading ± 2 Least Signficant Digit			
1	TDS Factor Range	n/a	Linear, 0.01 to 10.00, default 0.5			
	Measuring Range	n/a	1 to 100 MΩ-cm	2 to 100 MΩ-cm		
Resistivity	Resolution	n/a	0.01 Ω-cm	auto-range		
	Accuracy	n/a				
	Measuring range	n/a	± 0.5 % Reading ± 2 Least Signficant Digit 0 to 100 psu			
Practical	Resolution	n/a				
Salinity	Accuracy	n/a	0.01 psu minimum, auto-range ± 0.5 % Reading ± 2 Least Signficant Digit			
		-5.0 to 110.0°C				
	Measuring Range	-3.0 °F to 230.0°F				
Temperature	Resolution	23.0°F to 230.0°F 0.1 °C, 0.1 °F				
remperature	Accuracy					
		1 0.5 C, 10.5 T	± 0.5 °C, ±0.5 °F ± 0.3 °C, ±0.3 °F			
I			No			
Calibration	Calibration points	Up to 3 points	No 1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 µS/cm and 12.88mS/cm)	Up to 5 points for pH; 1 point cell constant calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 μS/ cm and 12.88mS/cm)		
Calibration	Calibration	Up to 3 points Slope/offset & Face	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm	calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 $\mu\text{S}/$		
Calibration	Calibration Calibration points		1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm)	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 μS/ cm and 12.88mS/cm)		
Calibration	Calibration Calibration points Calibration Sign	Slope/offset & Face	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm) Cell Constant & Face	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µ5/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face		
Calibration	Calibration Calibration points Calibration Sign Calibration mode	Slope/offset & Face	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 µ5/cm and 12.88m5/cm) Cell Constant & Face Linear	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µ5/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face		
Calibration	Calibration Calibration points Calibration Sign Calibration mode Display Type	Slope/offset & Face	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm) Cell Constant & Face Linear 6.5" Segment & Dot matrix LCD with backlight	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µ5/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face		
Calibration	Calibration Calibration points Calibration Sign Calibration mode Display Type Multilanguage User Interface	Slope/offset & Face English, Sp	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm) Cell Constant & Face Linear 6.5" Segment & Dot matrix LCD with backlight panish, French, Portuguese, Chinese, Russian a	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µS/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face		
Calibration	Calibration Calibration points Calibration Sign Calibration Mode Display Type Multilanguage User Interface Measurement End-point Modes	Slope/offset & Face English, Sp	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm) Cell Constant & Face Linear 6.5" Segment & Dot matrix LCD with backlight panish, French, Portuguese, Chinese, Russian a Auto-stop, Continuous	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µS/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face		
Calibration	Calibration Calibration points Calibration Sign Calibration Mode Display Type Multilanguage User Interface Measurement End-point Modes Datalog for measurement	Slope/offset & Face English, Sp	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm) Cell Constant & Face Linear 6.5" Segment & Dot matrix LCD with backlight panish, French, Portuguese, Chinese, Russian a Auto-stop, Continuous 1000 sets data points with time and date stam	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µS/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face		
	Calibration Calibration points Calibration Sign Calibration mode Display Type Multilanguage User Interface Measurement End-point Modes Datalog for measurement Datalog for calibration	Slope/offset & Face English, Sp	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm) Cell Constant & Face Linear 6.5" Segment & Dot matrix LCD with backlight panish, French, Portuguese, Chinese, Russian a Auto-stop, Continuous 1000 sets data points with time and date stam Last calibration	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µS/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face nd Turkish		
Calibration Meter Specifications	Calibration Calibration points Calibration Sign Calibration Mode Display Type Multilanguage User Interface Measurement End-point Modes Datalog for measurement Datalog for calibration Keypad	Slope/offset & Face English, Sp	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm) Cell Constant & Face Linear 6.5" Segment & Dot matrix LCD with backlight panish, French, Portuguese, Chinese, Russian a Auto-stop, Continuous 1000 sets data points with time and date stam Last calibration Capacitive touch	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µS/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face nd Turkish		
Meter	Calibration Calibration points Calibration points Calibration Sign Calibration mode Display Type Multilanguage User Interface Measurement End-point Modes Datalog for measurement Datalog for calibration Keypad Output pH electrode input	Slope/offset & Face English, Sp	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm) Cell Constant & Face Linear 6.5" Segment & Dot matrix LCD with backlight banish, French, Portuguese, Chinese, Russian a Auto-stop, Continuous 1000 sets data points with time and date stamp Last calibration Capacitive touch to PC via RS232 and USB, Connect to Printer v BNC	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µS/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face nd Turkish		
Meter	Calibration Calibration points Calibration points Calibration Sign Calibration mode Display Type Multilanguage User Interface Measurement End-point Modes Datalog for calibration Keypad Output pH electrode input Conductivity input	Slope/offset & Face English, Sp	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm) Cell Constant & Face Linear 6.5" Segment & Dot matrix LCD with backlight banish, French, Portuguese, Chinese, Russian a Auto-stop, Continuous 1000 sets data points with time and date stamp Last calibration Capacitive touch to PC via RS232 and USB, Connect to Printer v BNC Mini-Din	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µS/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face nd Turkish		
Meter	Calibration Calibration points Calibration points Calibration Sign Calibration mode Display Type Multilanguage User Interface Measurement End-point Modes Datalog for calibration Keypad Output pH electrode input Conductivity input Temperature input	Slope/offset & Face English, Sp	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm) Cell Constant & Face Linear 6.5" Segment & Dot matrix LCD with backlight banish, French, Portuguese, Chinese, Russian a Auto-stop, Continuous 1000 sets data points with time and date stamp Last calibration Capacitive touch to PC via RS232 and USB, Connect to Printer v BNC Mini-Din Cinch, NTC 30 kΩ	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µS/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face nd Turkish		
Meter	Calibration Calibration points Calibration points Calibration Sign Calibration mode Display Type Multilanguage User Interface Measurement End-point Modes Datalog for measurement Datalog for calibration Keypad Output pH electrode input Conductivity input Temperature input Installation Overvoltage	Slope/offset & Face English, Sp	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm) Cell Constant & Face Linear 6.5" Segment & Dot matrix LCD with backlight banish, French, Portuguese, Chinese, Russian a Auto-stop, Continuous 1000 sets data points with time and date stamp Last calibration Capacitive touch to PC via R5232 and USB, Connect to Printer v BNC Mini-Din Cinch, NTC 30 kΩ Category II	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µS/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face nd Turkish		
Meter	Calibration Calibration points Calibration points Calibration Sign Calibration mode Display Type Multilanguage User Interface Measurement End-point Modes Datalog for calibration Keypad Output pH electrode input Conductivity input Temperature input	Slope/offset & Face English, Sp	1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88mS/cm) Cell Constant & Face Linear 6.5" Segment & Dot matrix LCD with backlight banish, French, Portuguese, Chinese, Russian a Auto-stop, Continuous 1000 sets data points with time and date stamp Last calibration Capacitive touch to PC via RS232 and USB, Connect to Printer v BNC Mini-Din Cinch, NTC 30 kΩ	calibration; 6 conductivity standard solu- tions available (10, 84, 146.5, 500, 1413 µ5/ cm and 12.88mS/cm) Slope/offset & Cell Constant & Face nd Turkish		

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Outline Dimensions



a-AB33PH-B	a-AB33PH-F
- a-AB33PH Benchtop Meter - Stand-Alone Electrode Holder	- a-AB33PH-B Content - ST310 pH Electrode - pH Buffer Mini Kits (4 × 50mL)
a-AB33EC-B	a-AB33EC-F
- a-AB33EC Benchtop Meter, - Stand-Alone Electrode Holder	- a-AB33EC-B Content - STCON7 Probe - Conductivity Standard Kits (84 uS/cm, 4 × 50mL)
a-AB33M1-B	a-AB33M1-F
- a-AB33M1 Benchtop Meter - Stand-Alone Electrode Holder	 - a-AB33M1-B Content - ST310 pH Electrode - STCON3 Probe - pH Buffer Mini Kits (4 × 50mL) - Conductivity Standard Kits (1413 uS/cm, 4 × 50mL)

Other Features and Equipment

Application:

AB33PH: pH, oxidation-reduction potential (ORP) with Temperature Measurements

AB33EC: Conductivity, Total Dissolved Solids (TDS), Salinity and Resistivity with Temperature Measurements

AB33M1: pH, oxidation-reduction potential (ORP), Conductivity, Total Dissolved Solids (TDS), Salinity and Resistivity with Temperature Measurements

- Operation: AC adapter (included)
- Communication: RS232, USB Device (included)
- Construction: Capacitive touch, ABS housing, standalone electrode holder
- Design Features: i-Steward, Two Independent Channels (for AB33M-1), Calibration due alarm, 1,000 measurement memory

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: C€, RCM
- Others: WEEE, RoHS

Accessories

 Electrode holder AB33
 30661423

 Stirrer Compact AS20
 30661425

 SF40A Printer
 30045641

 Tester BNC AB33 AB41
 30658042

ltem #	Solutions	ltem #	Electrodes
30100424	Buffer pH 1.68 250 mL	30129354	pH electrode ST350
30100425	Buffer pH 4.01 250 mL	83033967	pH electrode ST320
30100426	Buffer pH 6.86 250 mL	83033965	pH electrode ST310
30100427	Buffer pH 7.00 250 mL	30393265	pH electrode ST272
30100428	Buffer pH 9.18 250 mL	30240974	pH electrode ST270
30100429	Buffer pH 10.01 250 mL	30129357	pH electrode ST260
30100440	Buffer pH 12.45 250 mL	83033968	pH electrode ST230
30059255	Reference Electrolyte (3M KCI Solution Saturated AgCl, 30 mL)	83033966	pH electrode ST210
	pH Electrode Protection Solution (3M KCl, 125 mL)	30087566	pH electrode STMICRO5
30059256		30087569	pH electrode STMICRO8
30100441	Conductivity Standard Solution 10 µS/cm, 250 mL	30129470	pH electrode STSURF
		83033969	pH electrode STPURE
30100442	Conductivity Standard Solution 84 µS/cm, 250 mL	30038555	ORP electrode STORP1
20202260	Conductivity Standard Solution 500 uS/cm 250 mL	30038553	ORP electrode STORP2
30393269		30059253	Reference Electrode STREF1
30100443	Conductivity Standard Solution 1413 μS/cm, 250 mL	83033972	Conductivity probe STCON3
	Conductivity Standard Solution 12.88 mS/cm, 250 mL	30080693	Conductivity probe STCON7
30100444		83033970	Temperature probe STTEMP30

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esupport@safetyemporium.com www.safetyemporium.com

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OHAUS Europe GmbH

Heuwinkelstrasse 3, 8606 Nänikon, Switzerland

e-mail: ssc@ohaus.com Tel: 0041 22 567 53 19 e-mail: tsc@ohaus.com Tel: 0041 22 567 53 20

www.ohaus.com

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



Packages Available in six configurations