

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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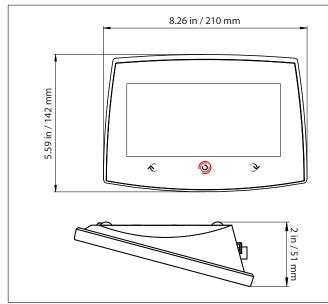
AQUASEARCHERTM AB33 Benchtop Meters

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 | | |

AQUASEARCHER™ *AB33* Benchtop Meters

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



Packages Available in six configurations