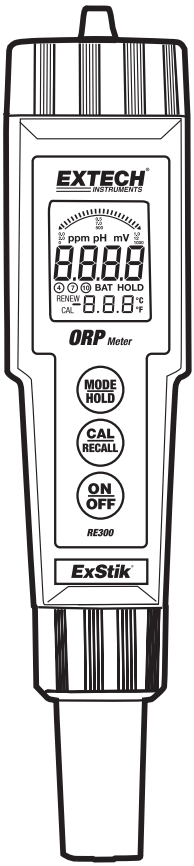
EXTECH INSTRUMENTS

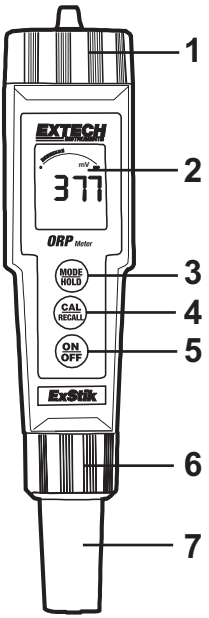
User Guide

ExStik™ Model RE300
Waterproof ORP Meter



ExStik™ Description

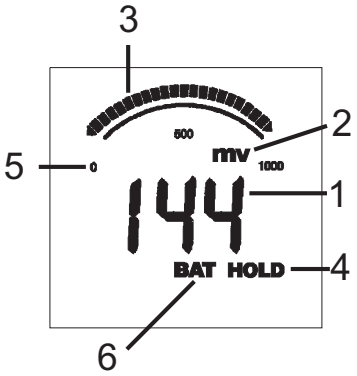
Front Panel Controls



1. Battery compartment cap
2. LCD Display
3. MODE button
4. CAL button (unused on RE300)
5. ON/OFF button
6. Electrode collar
7. Electrode

(Electrode cap is not shown)

Display Description



1. Reading
2. Units
3. Bargraph
4. Data Hold
5. Scale
6. Low Battery

Operation

Getting Started

Battery Activation: An insulating tab is located in the battery compartment and prevents battery drain during storage. It must be removed before use.
White KCL crystals may be present on the electrode. These crystals will dissolve in a distilled water soak or they can be simply rinsed with tap water.

Do NOT wipe the end of the RE300 electrode as it may damage the sensor.

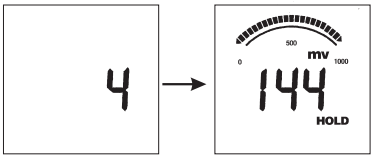
When the RE300 is turned on, it enters the Automatic Calibration mode. 'SELF' and 'CAL' will appear on the LCD while calibration is in progress. After the calibration is complete, 'SELF' and 'CAL' will extinguish and both the main display and bargraph will read ORP in mV units. The bargraph will read 0mV (far left), 500mV (center), and 1000mV (far right).

ORP Testing

1. Remove cap from the electrode and soak the electrode in distilled or tap water for 10 minutes.
2. Press the ON/OFF button to switch the RE300 on.
3. Dip the electrode1/2" to 1" into the test solution. Stir once and let the reading stabilize for 1 to 3 minutes.
4. Note the ORP or press MODE to freeze the reading The HOLD display icon will appear along with the held reading. The held reading will be stored in the next 15-reading storage location (see below). Press the MODE key to return to normal operation.
5. Press the ON/OFF button to turn the RE300 off. If you do not press a button for 10 minutes the RE300 shuts off automatically.

15-Reading Measurement Storage

1. Press the MODE button to store a reading. The LCD will briefly display the memory location number and then the value stored (Data Hold will activate).
2. Press MODE again to return to normal operation. Repeat step 1 above to store the next reading and so on.
3. If an attempt is made to store more than 15 readings, the stored readings (starting with the first reading) will be overwritten.



Recalling Stored Readings

Note: First ensure that the HOLD symbol is not displayed. If it is, exit the HOLD function by pressing the MODE button.

1. Press the CAL button once and then press the MODE button immediately after CAL is displayed; the location number (1 through 15) will flash. If the CAL mode is accidentally accessed (display flashing), press the CAL button again to exit.
2. The last stored reading taken will be displayed first. To advance through the stored readings, press the MODE button. The location number is displayed first, followed by the reading stored in that location.
3. To exit the storage mode, press the CAL button and the ExStik™ will return to normal operation.

Measurement and Display Considerations

- If the unit appears to be locked (display frozen). It is possible that the Data Hold mode has been inadvertently accessed by pressing the MODE button. Simply press the MODE button again or turn the meter off and restart if the display appears frozen.
- If the meter does latch up and no button presses revive it, remove the batteries and restart.
- Note that if the batteries are removed, any stored readings will be discarded. Factory calibration data for all models will be retained, however.

Replacing the Electrode

To preserve Electrode life keep the sponge in the protective cap soaked with distilled or tap water when not in use (store vertically).
DO NOT USE DE-IONIZED WATER.

1. To remove an electrode, unscrew and completely remove the electrode collar (turn the collar counter-clockwise to remove).
2. Gently rock the electrode from side to side, pulling it downwards, until it disconnects from the meter.
3. To attach an electrode, carefully plug the electrode into the meter socket (note that the electrode connector is keyed, ensuring proper connection).
4. Tighten the electrode collar firmly enough to make a good seal (a rubber gasket seals the electrode with the meter).

Powering the ExStik™

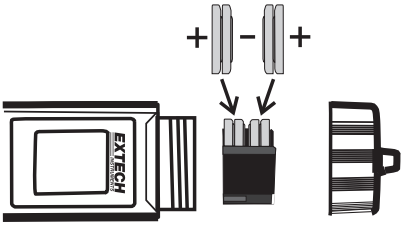
The ExStikTM uses four (4) CR2032 batteries (included). If the batteries are weak, the 'BAT' indicator appears on the LCD. Press the ON/OFF key to turn the ExStikTM on or off. The auto power off feature shuts the ExStikTM off automatically after 10 minutes of inactivity to preserve battery life.

Accuracy check of the RE300 electrode

1. Remove cap from the electrode and press the ON/OFF button to switch the RE300 on.
2. Dip the electrode1/2" to 1" into the ORP Standard test solution. Stir once and let the reading stabilize for 1 to 3 minutes.

Battery Replacement

1. Twist off the battery compartment cap
2. Replace the four (4) 2032 batteries observing polarity.
3. Replace the battery compartment cap



Never dispose of used batteries or rechargeable batteries in household waste. As consumers, users are legally required to take used batteries to appropriate collection sites, the retail store where the batteries were purchased, or wherever batteries are sold.

Disposal: Do not dispose of this instrument in household waste. The user is obligated to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment.

Optional Accessories

- Replacement ORP electrode (Part Number: RE305)

Specifications

Display	Multifunction LCD with Bargraph
Operating conditions	0 to 50°C (32 to 122°F) / < 80% RH
ORP Range / Accuracy	± 999mV / ± 4mV
Electrode Compensation	204.6mV
Measurement storage	15 tagged (numbered) readings
Power	Four (4) CR2032 button batteries
Low battery indication	'BAT' appears on the LCD
Auto power off	After 10 minutes of inactivity
Dimensions	35,6x172,7x40,6mm (1,4x6,8x1,6"); 110g (3,85oz)

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