INSTRUCTIONS for CHEKMITE

PH-15 Sensor

The pH-15 is a portable, microprocessor based pH meter in a waterproof and chemical resistant case. It features LCD readout, automatic calibration to 2 points plus, a replaceable epoxy body sensor.

Specifications:
- Range: 0.0 to 14.0 pH
- Resolution: 0.01 pH
- Accuracy: ±0.04 pH
- Temp. Compensation: Fixed @ 25°C
- Power Supply: 2 x 3volt Lithium Cells (CR-2032)
- Battery Life: 200hrs. (Approx.)
- Dimensions (in): 9.25Lx1.75Wx1.25D
- Weight: 5 Ounces

INSTRUCTIONS for CHEKMITE

Sample Measurement Procedure:
Manual or Automatic reading of sample value is possible. In automatic mode end-point detection is employed to detect the sensor response plateau. To select READ mode...
1. Press & HOLD the [READ] key for >3seconds at any time during the READ cycle to select either MANUAL or AUTO read. A <circle A> icon will be displayed when in AUTO-READ mode.

AUTO-READ (<circle A> icon displayed):
1. Remove meter end-cap & press the [ON/OFF] key to turn meter ON.
2. Immerse tip of sensor in pH7.00 buffer to a depth of approx. 1”.
3. Press [CAL] key; a “beep” will be heard and the <CAL> icon will flash while endpoint is being tracked. At endpoint the display will “freeze” to 7.00, a “beep” will be heard and a <square 7> icon will be displayed, indicating auto-calibration to pH7.00.
4. Rinse sensor tip with distilled or de-ionized water and blot to remove excess water.
5. For two-point calibration repeat steps 2 through 4 using pH4.00 or 10.01 buffer. The readout will “freeze” to the selected buffer value and a <square 4> or <square 10> icon will display alongside the <square 7> icon indicating auto-calibration to a second point.

Manual Calibration (<circle A> icon NOT displayed):
1. Remove meter end-cap & press [ON/OFF] key, to turn meter ON.
2. Immerse tip of sensor in pH7.00 buffer to a depth of approx. 1”.
3. Press [CAL] key a “beep” will be heard; wait for readout to stabilize, then press the [READ] key. A “beep” will be heard, the display will “freeze” to 7.00 and a <square 7> icon will be displayed, indicating calibration to pH7.00.
4. Rinse sensor tip with distilled or de-ionized water and blot to remove excess water.
5. For two-point calibration repeat steps 2 through 4 using pH4.00 or 10.01 buffer. When pressing the [READ] key the readout will “freeze” to the selected buffer value and a <square 4> or <square 10> icon will display alongside the <square 7> icon, to indicate calibration to a second point.

Error Codes:
E1 & E2 Wrong buffer or unfit sensor during calibration procedure. Change buffer and/or clean sensor. Repeat conditioning procedure.

Calibration Buffers:
The values @ 25°C for 3 standard Buffer Sets are programmed into software...
Set #1: 4.00, 7.00 & 10.01pH (USA: NIST)
Set #2: 4.01, 7.00 & 9.21pH (Europe)
Set #3: 4.01, 6.86 & 9.18 (DIN 19266)

Daily calibration is recommended. Either a 1 or 2-point calibration is possible using 7.00 & 4.00, or 7.00 & 10.01 pH buffers in automatic mode, end-point detection software will detect the sensor response plateau. To select calibration mode...
1. Press the [ON/OFF] key.
2. Press the [CAL] key. With the [CAL] icon flashing, press & HOLD the [READ] key for >3seconds to select either MANUAL or AUTO calibration. A <circle A> icon will be displayed when in AUTO-CAL mode.
3. Press the [ON/OFF] key.

Automatic Calibration (<circle A> icon displayed):
1. Remove meter end-cap & press [ON/OFF] key, to turn meter ON.
2. Immerse tip of sensor in pH7.00 buffer to a depth of approx. 1”.
3. Press [CAL] key; a “beep” will be heard and the <CAL> icon will flash while endpoint is being tracked. At endpoint the display will “freeze” to 7.00, a “beep” will be heard and a <square 7> icon will be displayed, indicating auto-calibration to pH7.00.
4. Rinse sensor tip with distilled or de-ionized water and blot to remove excess water.
5. For two-point calibration repeat steps 2 through 4 using pH4.00 or 10.01 buffer. The readout will “freeze” to the selected buffer value and a <square 4> or <square 10> icon will display alongside the <square 7> icon indicating auto-calibration to a second point.

Er Calibration Buffer or Sample beyond instrument range.

Care and Maintenance Tips:
- A Test Plug is provided in the meter kit to assist in testing of the electronic meter module in cases where error codes are observed. To use...
1. Remove the batteries for several minutes, then re-install. This will clear old calibration information.
2. Repeat press of the [CAL] key will cycle through the 3 buffer sets, is “b1” to “b2” to “b3” to “b1+1”, etc.
3. When buffer set of choice is displayed, press [READ] key to select.

Optional Accessories:
- Un-screw & remove the retaining nut at the top of the electrode body.
- Unplug electrode from CHEKMITE body by pulling straight out.
- Replace with new electrode and refit retaining nut, being careful to include “O” rings as originally positioned.
473051 Replacement Sensor.
473676 Buffer Sachet Assortment.
478574 Buffer Rainbow Pk. 4, 7, 10pH
(2-500mL bottles each/case).
470530 Replacement Batteries (2/pk).

**Warranty:**
ITT Analytics warrants this product to be free from defects in materials and workmanship for a period of six (6) months from the date of purchase.

THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ITT ANALYTICS SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGES ARISING FROM THE USE OF THESE PRODUCTS NOR FOR CONSEQUENTIAL DAMAGES OF ANY KIND.

In the event that this product fails under normal laboratory conditions within the specified period because of a defect in material or workmanship, ITT Analytics will, at its option, repair or replace the product. Contact ITT Analytics Customer Service for return authorization and shipping instructions at 1-866-644-6682.

ITT Analytics, WOBURN MA 01801
©2006