HI10482/HALO pH PROBE
QUICK START INSTRUCTION GUIDE

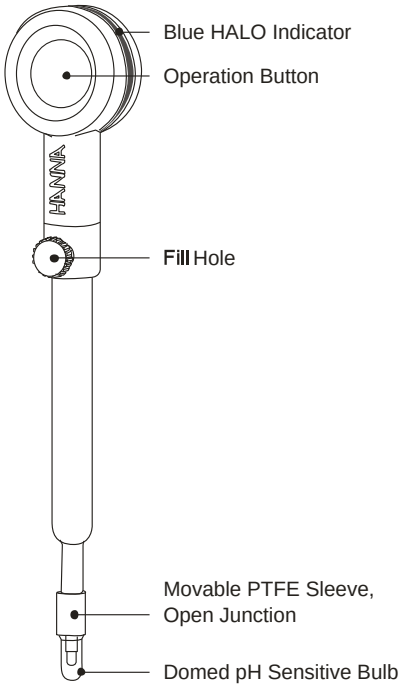
Thank you for selecting a Hanna Instruments product. Please read this manual before using the Halo probe on your iPad® with Hanna Lab App or with edge® blu. Consult the Hanna Lab App "HELP" or the edge blue instruction manual for additional information on Probe Maintenance and calibration.

IMPORTANT! During servicing and measurement, ***handle probe with care. Do not drop probe on a hard surface. It will permanently damage the probe.*** During storage or transport, utilize the clear protective cap to protect and keep the pH bulb hydrated.

PREPARATION:

Remove the probe from the plastic storage tube by unscrewing the top collar to vent the cap before removing. Save cap and collar for probe storage.

1. Rinse off any storage solution or salts that may be on the glass body.
2. Remove the fill hole cap and top off electrolyte reservoir with HI 7082 if required. It is best to operate the probe with fill hole open to ensure electrolyte flow through the junction.
3. Check to verify there is solution inside the pH bulb, shaking the probe down can restore continuity as the solution may have moved up the stem during shipping.



CONNECTION:

Using Hanna Lab App on an iPad®

1. To begin using the HALO™ probe, start the Hanna Lab app and tap the Bluetooth icon on the iPad®.
2. Press the operation button located on the top of the probe. The blue LED halo will begin to flash in half second intervals, indicating it's in discoverable mode and the probe ID will appear in the list of probes.
3. Touch the probe ID once it appears in the list of probes. The blue LED will slow down and flash every 2 seconds.

Using Edge®blu

1. To begin using the HALO™ probe, turn ON edge®blu. The meter swill start scanning for probes.
2. Press the operation button located on the top of the probe. The blue LED halo begin to flash in half second intervals, indicating it's in discoverable mode and the probe ID will appear in the list of probes.
3. Select your probe in the list of visible probes and press CFM. The blue LED will start flashing 4 times a second while connecting, then it will slow down and flash every 2 seconds showing it is connected and ready to measure.

MEASUREMENT SETUP:

1. Calibrate the pH probe.
2. Take measurements using the pH probe.
3. When probe is not in use, place the hard protective storage cap over glass bulb and replace fill hole cap.

MEASUREMENT GUIDES:

1. Always clamp or support probe during use.
2. Frequent calibrations are suggested for critical pH applications.
3. To eliminate thermal or sample gradients stir buffers and samples using a magnetic stirrer.
4. The reference junction may be cleaned by lifting the PTFE sleeve. Refill sensor with fresh HI7082 after replacing sleeve.

CALIBRATION:

1. Calibration can be performed using up to five calibration buffers. For accurate measurements a minimum of a three - point calibration is recommended. Please note the HI10482 probe will use pH 3.00 buffer instead of pH 4.01.
2. Enter calibration screen (using Hanna Lab App or edge®blue).
3. Place the probe in the first buffer.
4. Confirm the calibration point when the reading is stable.
5. Repeat the procedure for up to five calibration points. For details, please see edge®blu manual or Hanna Lab App HELP.

STORAGE:

1. Rinse off the HI10482/HALO™ probe with deionized water to remove sample.
2. Blot off using a soft tissue.
3. Pour 1 cm of HI 70300 storage solution into plastic storage cap. Place probe bulb into cap and tighten the threaded collar.