

HI 99151

pH/temperature Meter for the Beer Industry

Quick Reference Guide

MEASUREMENTS

- **Range:** -2.00 to 16.00 pH
-5.0 to 105.0 °C / 23.0 to 221.0 °F
- **Accuracy:** ±0.02 pH
(@25 °C/77 °F) ±0.5 °C up to 60 °C; ±1.0 °C outside
±1.0 °F up to 140 °F; ±2.0 °F outside

OPERATIONAL GUIDE

- **To switch ON and OFF:** press ON/OFF/MODE.
- **To freeze the display:** press SET/HOLD until "HOLD" appears.
- **To take measurements:** connect the probe when **the meter is off**, remove the protective cap, turn the meter ON, insert the probe tip in the sample and wait until the "Not Stable" tag is turned off.
- **To enter the pH Calibration mode:** press ON/OFF/MODE until "CAL" appears. Release the button and "pH 7.01 USE" (or "pH 6.86 USE") message is displayed.
- **To select °C or °F unit:** press ON/OFF/MODE until "TEMP" appears, then select the temperature unit with SET/HOLD. Press ON/OFF/MODE twice to return to normal mode.
- **To change the calibration buffer set:** press ON/OFF/MODE until "TEMP" appears. Press again ON/OFF/MODE: the message "pH 7.01 BUFF" (or "pH 6.86 BUFF") appears. Change the buffer set with SET/HOLD. Press ON/OFF/MODE to return to normal mode.



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pH CALIBRATION PROCEDURE

Calibration messages:

- **USE** : default suggested buffer.
- **REC** : a valid buffer is recognized.
- **WRNG** : invalid buffer detected.


Two-point procedure:

- Place the probe in pH 7.01 (or 6.86) buffer.
- After the first point is accepted, the "pH 4.01 USE" message appears.
- Place the probe in pH 4.01, 10.01 (or 9.18) buffer.
- When the second point is accepted, the "OK 2" message appears and then the meter returns to normal mode.

Single-point procedure:

- **With pH 4.01, 9.18 or 10.01 buffer:** when the calibration point is accepted, the buffer value and "OK 1" message appear and then the meter returns to normal mode.
- **With pH 7.01 or 6.86 buffer:** after the calibration point has been accepted, the ON/OFF/MODE button must be pressed to return to normal mode.

NOTES

- **Probe:** FC 214D pH electrode with internal temperature sensor, titanium body, for Beer Industry, with DIN connector.
- If the **probe is dry**, soak it in HI 70300 Storage Solution for half an hour.
- **To clean the meter:** use water.
- **To quit calibration (ESC):** press ON/OFF/MODE after entering the calibration mode and before the first point is accepted.
- **To clear calibration (CLR):** press SET/HOLD after entering the calibration mode and before the first point is accepted.
- When the **battery symbol**  appears, the batteries should be replaced soon.
- Open the battery compartment cap on the bottom of the instrument and replace old batteries with new ones, following the instructions on the rear of the instrument.