



General instruction for pH electrodes



99 Washington Street
Melrose, MA 02176
Phone 781-665-1400
Toll Free 1-800-517-8431



Visit us at www.TestEquipmentDepot.com

Ohaus Corporation
7 Campus Drive
Suite 310
Parsippany, NJ 07054 USA
Tel: (973) 377-9000
Fax: (973) 944-7177

With offices worldwide



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Model	Item NO	Description
ST310	83033965	3-in-1 pH electrode
ST210	83033966	2-in-1 pH electrode
ST320	83033967	3-in-1 gel pH electrode
ST230	83033968	Muddy sample pH electrode
STPURE	83033969	Pure water pH electrode

Specifications:

Connection:	BNC, Cinch
Cable length:	1.0m
Shaft length:	120mm
Shaft diameter:	12mm
pH range:	0-14pH
Zero potential:	7.00±0.25pH
Slope:	≥ 97%
Impedance:	≤ 250MΩ

Shaft material:

Plastic (ST210,ST310,ST320)

Glass (ST230, STPURE)

Reference Electrolyte:

3M KCl Gel (ST320) or Solution

Temperature range:

0-80°C (ST210,ST310,ST320)

0-100°C (ST230, STPURE)

Temperature probe: NTC 30kΩ**Reference Diaphragm:**

Ceramic (ST210, ST310)

Fiber (ST320)

Sleeve or ground glass
(ST230, STPURE)

OHAUS offer different pH electrode for different application. Make sure you have chosen the best fit pH electrode for your samples; and do calibration first for the electrode.

- 3-in-1 electrodes(ST310 and ST320) have the temperature probe in it.
- Gel electrode(ST320) doesn't need to refill the reference electrolyte.
- 2-in-1 pH electrodes(ST210, ST230, STPURE) need to work with STTEMP30 for 0.01 pH accuracy.

Before using electrode in calibration or measurement, we should note:

1. When unpacking, check the electrode for any mechanical damage to the membrane, diaphragm or body.
2. Screw off watering cap first, then the lid, rinse electrode with pure water. Wipe electrode with a tissue. Do not rub the glass membrane, or the response time might increase.
3. Eliminate any air bubbles inside the membrane. Make the electrode inside pressure equilibrium with the atmosphere by opening the electrode refilling aperture when measurement.

FAQs:**1. What's the meaning of electrode condition icon?**

After calibration, the pH meter will judge the electrode slope and offset, then display the judgment in the screen:

😊 slope > 95%

Electrode condition is very good

😐 slope : 90%-95%

Electrode condition is acceptable

😞 slope : 85%-90%

Electrode condition is not good, need re-calibration or replace

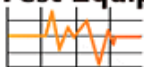
2.How do you properly store the pH electrode after every use?

A: Rinse the electrode with pure water, put the electrode into the watering cap. If the solution in the cap is polluted or dry, clean it and fill it with 3M KCl solution.

3.What's the life of the pH electrodes?

A: Measured samples, storage conditions and maintenance methods all could influence the life of pH electrodes; normally a pH electrode expires after 12 months.

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