



PULSE INSTRUMENTS®

943 Flynn Road, Camarillo, CA 93012. Phone: (800) 462-1926 Fax: (800) 878-9172

Model 110-pH and Model 110-ORP

Model 110-pH

CONTROL SET POINTS

To set the ACID

- a. Press the "READ" key (ACID) on the front of the controller. The controller will display the set point.
While holding the "READ" key down, adjust the set point preferred.
- b. Release the "READ" key and the controller will indicate the process value.

To set the BASE

- a. Press the "READ" key (BASE) on the front of the controller. The controller will display the set point.
- b. While holding the "READ" key down, adjust the set point preferred.
- c. Release the "READ" key and the controller will indicate the process value.

pH Calibration

- a. Place the pH probe in buffer 7.00.
- b. Allow sufficient time for probe to reach the buffer value.
- c. Set the calibration control (CAL pH 7) on the front of the controller to read 7.00.
- d. Rinse the electrode.
- e. Place the probe in buffer 4.01.
- f. Allow sufficient time for probe to reach the buffer value.
- g. Set the calibration control (CAL pH-4) on the front of the controller to read 4.01.
- h. The meter is calibrated and ready for measurement.

Model 110-ORP

CONTROL SET POINTS

To Set the REDUCTION

- a. Press the "READ" key (REDUC) on the front of the controller. The controller will display the set point.
- b. While holding the "READ" key down adjust the set point preferred.
- c. Release the "READ" key and the controller will indicate the process value.

To set the OXIDATION

- a. Press the "READ" key (OXCID) on the front of the controller. The controller will display the set point.
- b. While holding the "READ" key down adjust the set preferred.
- c. Release the "READ" key and the controller will indicate the process value.

ORP Calibration

- a. Place the ORP probe in checking solution of 468mV +/- 25mV +/-
- b. Allow sufficient time for probe to reach the solution value.
- c. Set the calibration control (CAL) on the front of the controller.
- d. The meter is calibrated and ready for measurement.

**Call the factory service center at
1-800-462-1926**

Specifications

Model 110

pH and ORP

Display	: 3½ digit LCD.
Range	: 0 to 14.00 pH; -1000 to +1000mV ORP
Control setting	: 0 to 14.00 pH; 0 to 1000mV ORP (by front multi-turn trimpot)
Limit display	: By membrane type touch switch, the LCD displays the control limit & the alarm limit.
Calibration	: Two separate trimpots for pH-7 & pH-4 on front panel. ORP trimpot for adjustments +/- 25mV.
Outputs	: Loaded 110v/220v AC control output at max 5A. 4-20mA isolated, equal to 0-14 pH; 0 to 1000 mV ORP
Internal selection	: Power output 110VAC / 220VAC by jumper.
Temperature compensation	: By PT-100 temp sensor. Range 0-100 °C. OR Terminate by resistance of PT-100
Consent contact	: Potential free contacts. They close only when the control relay is off. Can be connected to ORP controllers "Consent In".
Size	: Front face 96mm X 96mm Depth 125mm
Panel cutout	: 92mm X 92mm
Body	: Plastic ABS.