

Quick Start Guide

All meter functions are described in detail in the accompanying instruction manual. For calibration and measurement only a few steps are required, and step-by-step instructions are given in this guide.

Meter Overview

1. Results and current mode are displayed on the large main display.
2. Channel, ready, and step-by-step prompts are displayed on the lower prompt display.
3. The keys on the keypad have multiple functions. Their main function is to enter numeric values. They also have primary functions. These are labeled in white and are accessed by pressing **1st** then the function. Most keys also have secondary functions. These are labeled in green, and can be accessed by pressing **2nd**, then the function.
4. If you want to escape the sequence you are in, or you are not sure of which function you are in, pressing **1st** and then **measure** will take you to the MEASURE mode where you can start again.

Meter Connections

Power

1. Plug line adapter into an appropriate wall outlet.
2. Plug line adapter firmly into power input on rear panel of meter.

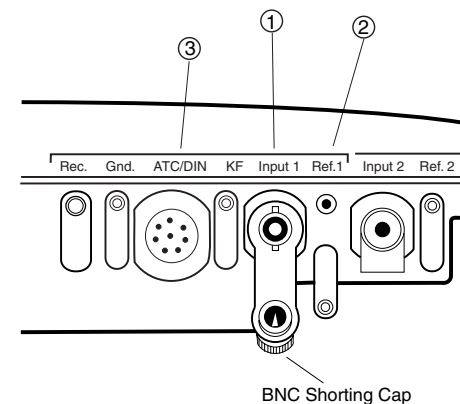
Orion 525Aplus pH Meter

Electrode Connections

1. Remove BNC shorting cap.
2. Attach electrode with BNC connector by sliding BNC connector onto electrode input (1), then push down and turn clockwise to lock into position.

NOTE: If using a combination electrode with a BNC connector, the reference electrode input (2) is not used.

3. Attach ATC probe with DIN connector by sliding the DIN connector into the ATC probe input (3) until firmly in place.



pH Measurement Overview

pH measurement is easy and accurate with the Orion 525Aplus. The meter/electrode system is calibrated with one to three buffers, which bracket your sample pH.

For better accuracy, at least a two buffer calibration is recommended.

The autocalibration feature automatically recognizes 1.68, 4.01, 7.00, 10.01, and 12.46 buffers. For best results, an ATC probe is recommended to compensate for temperature variation.

pH Autocalibration with Two Buffers

1. Verify selected input is currently in use. If input 1 is to be used, prompt line should indicate “1-”. If input is not correct, press **2nd**, then **channel** repeatedly until selected channel is displayed.
2. Select pH mode by pressing **mode** until “pH” is displayed on main display.
3. Place electrode(s) into pH 7 buffer and stir moderately.
4. Press **calibrate**. The date and time of the last calibration is displayed.
5. Press **2** then **yes** to select two buffer calibration.
6. When “RDY” is displayed on prompt line, indicating electrode stability, press **yes**. The buffer value is entered, stored and meter display freezes for three seconds. The meter automatically switches to buffer 2.
7. Remove electrode(s) from first buffer. Rinse with deionized water.
8. Place electrode(s) into second buffer.
9. When “RDY” is displayed on the prompt line, press **yes**.
10. The electrode slope is calculated and then the actual value (in percent) is displayed for five seconds. Meter will then automatically proceed to the MEASURE mode.
11. Remove electrode(s) from buffer. Rinse with deionized water. Place electrode(s) into sample. When “RDY” is displayed beside the reading, record the sample results.

Environmental Instruments

Water Analysis

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