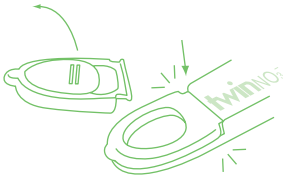


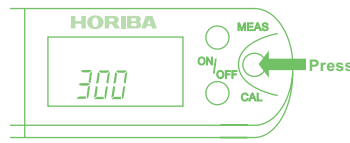
1 When using the meter for the first time, change the sensor cover.

Replace the existing sensor cover with the filter paper holder cover provided.



2 Turn the power ON.

Press the ON/OFF switch.



3 Calibrate the sensor to ensure correct measurement.

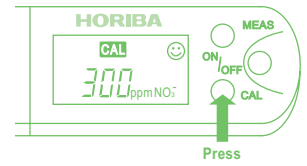
* Always calibrate the sensor at least once per day.

Add the standard solution.



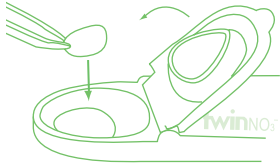
300 ppm standard solution

Press the CAL switch.



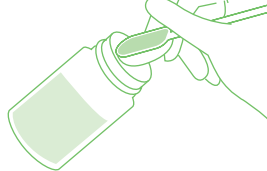
4 Take the measurement.

Insert a filter paper.



Place the filter paper in the sensor unit, and close the filter paper holder cover.

Add the soil sample to water.



Add enough of the sample to 60 mL of water to bring the total volume to 70 mL.

Shake the soil-water mixture for 1 minute.

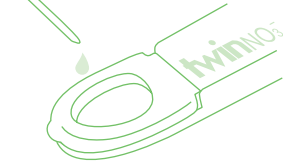


Sample the clear fluid on top.



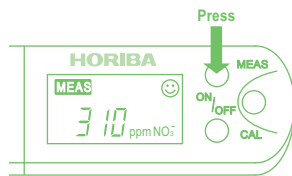
Sample the fluid after allowing the mixture to settle for several minutes.

Drop the sampled fluid onto the filter paper.



Guideline: 4 or 5 drops.

Press the MEAS switch.



Wait until the stability icon (☺) lights before pressing the switch.

5 Always rinse the sensor after use.

Rinse off the sensor with water.



Note: Read the Instruction Manual in addition to this procedure.

• Soil Measurement (Supplementary Information)

- The measurement procedure printed is just an example. Soil with a moisture content of 25% has a soil-to-water ratio of about 1:5. Measurement results are affected by the actual soil moisture concentration.
- To eliminate the effect of the soil's moisture concentration, allow the soil to air-dry, mix it with water in a ratio of 1 part soil to 5 parts water, and sample the water from the top after the mixture has settled.
- Accurate measurements can't be obtained from measuring fluid soil suspensions (turbid samples). Use the dedicated filter paper to perform measurement. You don't need the dedicated filter paper when you have created your own method of removing suspended particles using equipment such as a centrifugal separator or general-purpose filter paper.
- The sensor is affected by light, so avoid direct sunlight.
- Measurement may be impeded in soil with significantly high electrical conductivity, chloride ion (Cl⁻) concentration or oil concentration.
- Using the Onguard Ag chloride ion removal precolumn sold by Dionex is an effective way to remove chloride ions (Cl⁻).

• Consumable parts (supplies)

Name	Part No.
Replacement sensor	90880009000
Dedicated filter papers	90880015000
Filter paper holder cover	90880016000
30 ppm dedicated standard solution (Y044)	90880013000
300 ppm dedicated standard solution (Y042)	90880011000

• Procedure for Two Calibrations (For More Accurate Measurement)

Select the two-calibration mode from the special setting modes. Perform two calibrations when you want higher-precision measurement.

1. Follow the steps below to set the two-calibration mode.

- Press and hold the MEAS switch for at least 5 seconds to enter the special setting modes. All the LCD segments light, then the display on the right appears.



- Press and hold the CAL switch until the CAL icon and the number 3 appear.



- Press the MEAS switch once (0.5 second) to display the number of calibrations currently set. When one calibration is set, the number 1 appears.



- Press the CAL switch to display the number 2.



- Press the MEAS switch. The two-calibration mode is now set, and the meter returns to the standard measurement mode.

2. Add some drops of the 30 ppm standard solution to the sensor, and close the light shield cover.

3. Press the CAL switch for at least 2 seconds. The CAL icon flashes.

4. When the CAL icon changes from flashing to steadily lit, the first calibration has been finalized. The first calibration must be finalized before you can perform the second calibration.

5. Add some drops of the 300 ppm standard solution to the sensor, and perform the second calibration by the same procedure used for the first.