

# Probes for pH 400/600

## Quick Start Guide

Item # 2127, 2128



***Spectrum***<sup>®</sup>  
***Technologies, Inc.***

# GENERAL MAINTENANCE

---

## Preparing for use

Unpack the probe and remove the dust cap. Flush the probe with deionized water. The probe is now ready for calibration. When the probe has been stored for longer time, clean the probe as described below.

## Cleaning

Place the probe in warm tap water (around 60°C / 140°F) with a mild detergent for 5 minutes. Stir periodically. Soaking the probe first helps prevent scratching. Scrub the probe tip with a soft brush and water with a mild detergent. After scrubbing, rinse with deionized water.

## Revitalizing the probe

When the probe shows slow response or low slope values, a revitalisation of the reference should be performed. Place the probe (*still warm from cleaning*) in a saturated KCl solution for 20 minutes at room temperature.

## Storage

Rinse the probe in deionized water, do not dry the probe. Place one drop of pH7 buffer in the dust cap and place the cap over the probe-tip. Store the probe in a safe place, free from mechanical stress.

# TAKING READINGS

---

## Liquid samples

Either probe can be used to take readings in liquid samples such as irrigation water or fertilizer solution. The probes can also be used in soil slurries made from soil and distilled water.

## Direct-insert soil sampling

For non-coarse materials such as soilless media used in greenhouse operations, the probes can be inserted directly to take measurements. The reading will be influenced by moisture content so it is recommended that measurements be taken after a thorough irrigation.

For mineral soils or other coarse material, it is recommended that a pilot hole be created before inserting the metal-tipped probe. The pilot hole can be made with a screwdriver or other such instrument. When taking a measurement, pour distilled water down and wait 30 seconds before inserting probe.