HI12923

pH / Temperature Probe for Soil

The HI12923 pH electrode that is supplied with the HI98168 is uniquely designed with a conical tip and a triple ceramic junction for improved performance in soils that have a low moisture content. The probe has a built in amplifier to reduce noise from humidity that can effect the probe connection to the meter. The HI12923 connects to the HI98168 with a quick-connect, waterproof DIN connector, allowing for a secure, non-threaded attachment.

Refillable

As electrolyte is lost over time it can be replenished to extend the life of the electrode.

Triple Ceramic Junction

The outer reference has three ceramic frits that allow electrolyte to flow at a high rate from the inside of the probe to the outside. Three ceramics ensures electrical continuity will be maintained to optimize the measurement.

Conical Tip

The conical tip is made of durable low temperature glass and allows for direct measurement in soils. In the case any rocks are present an auger is provided to make a hole for the probe.

Quick Connect DIN Connector

This secure waterproof connector allows for a single cable to be used for both pH and temperature measurements.



Specifications	HI12923
Description	pH electrode
Reference	single, Ag/AgCl
Junction	ceramic, triple / 40-50 µL/h
Electrolyte	KCl 3.5M + AgCl
Max Pressure	0.1 bar
Range	pH: 0 to 12
Recommended Operating Temperature	-5 to 70°C (23 to 158°F) - LT
pH Glass Type	LT (low temperature)
Tip /Shape	conic (12 x 12 mm)
Temperature Sensor	yes
Amplifier	yes
Body Material	glass
Cable	5 wires; 1 m (3.3')
Connection	quick connect DIN

Application Importance

The measurement of pH in agricultural activities is very important due to the influence it has on the growth of the plant. Soil can be acid, neutral or alkaline, according to its pH value. Most plants prefer a pH range from 5.5 to 7.5; but some species prefer more acid or alkaline soils. Nevertheless, every plant requires a particular range of pH for optimum growth.

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