HC-3 Soil moisture sensor

Introduction

Moisture is the main factor determining the dielectric constant of the soil. Measuring the dielectric constant of soil can directly and stably reflect the true moisture content of various soils. HC3 soil moisture sensor can measure the volume percentage of soil moisture, has nothing to do with the mechanism of the soil itself, is the most popular method of measuring soil moisture in the world. The HC3 Soil Moisture Sensor is a highly accurate, highly sensitive sensor for measuring soil moisture.

performance indicators

Measurement parameters: Soil volumetric moisture content

Unit: %(m3/m3)

Range: 0 to 100% (m3/m3)

Accuracy: ±2% (m3/m3) in the range of 0 to 50% (m3/m3)

Settling time: approx. 1 second after power on

Response time: response enters steady-state process within 1 second

Operating voltage: 12V-24V DC

Output signal: current output is 4~20mA, voltage output is 0~2.5V DC

Sealing material: ABS engineering plastics

Probe material: stainless steel or copper

Cable length: standard length 5m

Telemetry distance: less than 1000 meters

TMain features

1. High stability, easy installation and maintenance

2. The supporting material is epoxy resin, and its strength and life are guaranteed.

3. Good sealability, can be buried in soil for long periods of use, and is not subject to corrosion

4. Adopt standard current loop transmission technology to make it have strong anti-interference ability, long transmission distance, high measurement accuracy, and fast response speed

5. The soil is less affected and widely used