

## Product Specification

Product: MEC-10 Soil Probe  
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## Soil Probe

The MEC10 is a combined soil moisture + conductivity + temperature sensor which is highly sensitive and accurate.

It is a useful tool for observing and studying the occurrence, evolution, improvement, and water-salt dynamics of saline soil.

By measuring the dielectric constant of the soil, the true moisture content of various soils can be directly and stably reflected.

The MEC10 Soil Moisture Sensor measures the volume percentage of soil moisture and is a measurement method that meets current international standards.

Applicable to soil moisture monitoring, scientific experiments, water-saving irrigation, greenhouses, flowers and vegetables, grassland pastures, soil speed measurement, plant cultivation, sewage treatment, agriculture and other occasions.

## Technical Data

|                         |   |
|-------------------------|---|
| Measuring range         | diameter of 7 cm and a height of 7 cm centred around the probe    |
| Measuring principle     | capacitance   |
| Response time           | less than 1 second  |
| Moisture accuracy       | ±5%;  |
| Temp range and accuracy | -40~80°C, ±0.5°C  |
| Probe material          | 316L stainless steel  |
| Sealing material        | epoxy resin   |
| Installation method     | completely buried or all probes inserted into the measured medium |
| Default cable length    | 2 meters (can be customized)                                      |
| Temperature range       | -40~85°C Input output   |
| Communications          | RS485, Working voltage 5-30V/DC DC                                |
|                         | 0-2V, Working voltage 5-30V/DC DC                                 |
|                         | 4-20mA, Working voltage 12-30V/DC DC                              |

## Approvals

- CE (European) marked and compliant
- RoHS (European) compliant & lead free

## Certificate of Origin

- Manufactured in the EU.

## Warranty

- 2-year warranty including damage by lightning when installed to Tonick Watering specifications.

Please refer to the Tonick OEM Guide for integration information.

