



Description

Sensor that measures soil or substrate moisture, electrical conductivity (0–20 mS/cm) and temperature in a single device. Communicates via RS485.

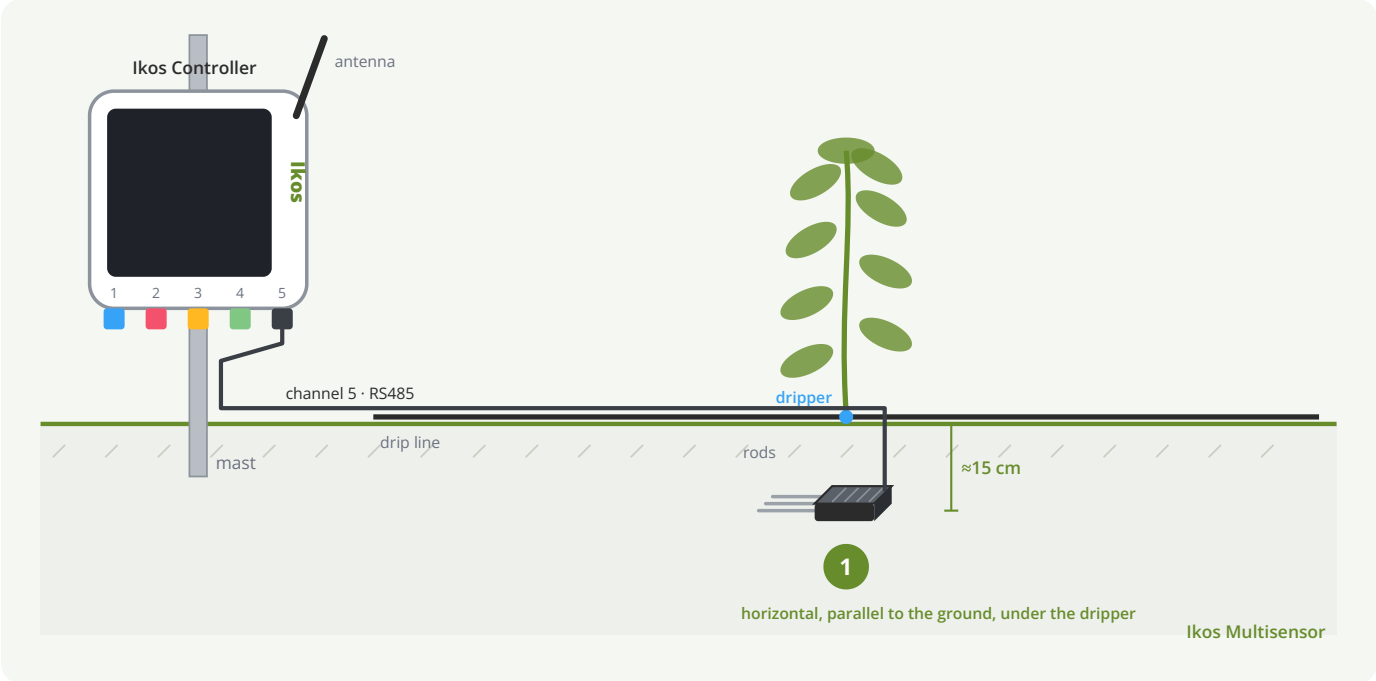
Features

- Three measurements in one sensor: moisture, conductivity and temperature.
- Response in under 1 s.
- Watertight IP68 encapsulation with steel rods.
- RS485 output to channel 5 of the Ikos Controller.

Technical specifications

Moisture range	0 – 100 %
Temperature range	–30 ~ +70 °C
Conductivity range	0 – 20 mS/cm
Output signal	RS485
Response time	< 1 s
Power supply	5 V
Effective measuring area	Ø 70 mm × 70 mm high
Operating temperature	–40 ~ +80 °C
Protection	IP68
Storage	10 – 60 °C · 20 – 90 % RH
Material	ABS encapsulation, IP68; steel rods

Installation



- Bury it horizontally, parallel to the ground, under the dripper and with the rods fully in contact with the soil.
- In hydroponics, bury it horizontally inside the bag, under the dripper.
- Connect it to channel 5 (RS485). If there are two, they connect to channel 5 through the multi-connector.

Packages that include it

PACKAGE	UNITS AND POSITION
Greenhouse Package (Nexus)	1 unit · channel 5
Open Field Package · Terra	1 unit · channel 5
Open Field Package · Atlas	1 unit · channel 5
Open Field Package · Vinea	2 units · at 15 and 30 cm, channel 5 with multi-connector
Hydroponic Package (Cosmos)	1 unit · inside the bag