

Humitec



Moralejo Técnica S.L

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<https://moralejotecnica.com/>

Moralejo
TÉCNICA S.L.

This device measures the level of humidity in the agricultural soil at one or more depths, outside temperature, relative air humidity and rainfall.

It consists of two parts:

A probe or several that are inserted into the soil at the depth required by each crop, and the electronic device itself that reads and interprets that value and sends it to the internet. The user receives in the mIOTec application from his smartphone, the value of the humidity in the soil in agricultural units of tension, centibars.

This measurement does not indicate the amount of water at that depth, but rather what it takes for the plant to absorb that water.

General

- Configurable sampling time (default: 30 min.)
- Does not require recalibration or maintenance.
- Commissioning, easy and fast.

Applications

- Start irrigation at the optimal time.
- Start irrigation when requested by the crop.
- Avoid unnecessary risks, which harm the crop.
- Water and energy saving.

Electrical characteristics

- Electrical power supply: 2 serial batteries Li-soc12.
- Tension: 7,20 Volts.
- Capacity: 7.700 mAh.
- Consumption :
 - < 70mA Active.
 - < 25uA Idle.

Equipment measurement

- Use a multi-level humidity probe, stuck in the ground.
- Measurement range: 0 cb m to 100 cb.
- Accuracy: 1 cb.

Wireless communications

- You can use any of the following platforms:
 - Sigfox 868 MHz.
 - Lora 868 MHz.
 - 2G/3G with SIM card.
- The antenna is external with gain -3 dB.

work environment

- Temperature: -30°C to +80°C.
- Humidity: 10% to 90% RH.

Wired communications

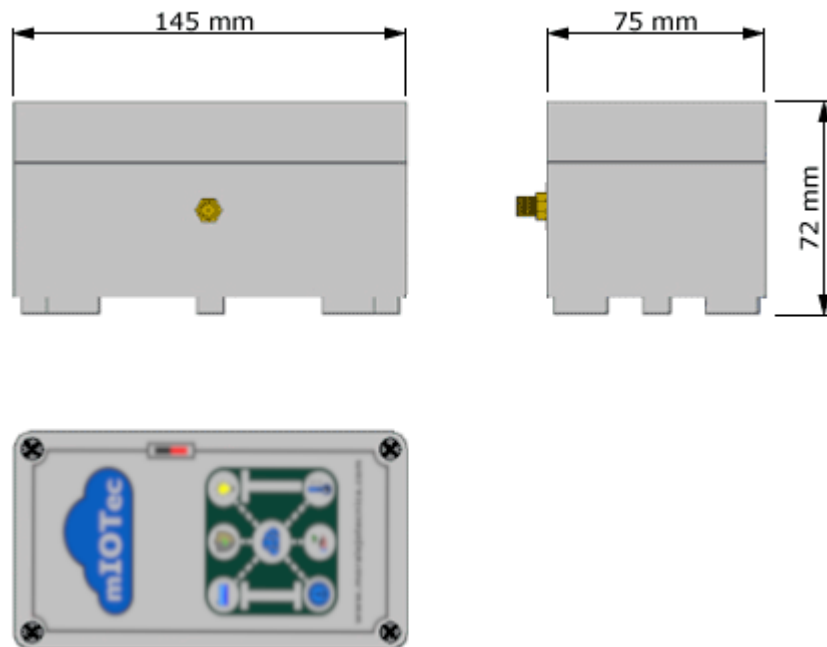
- RS-485 port.
- RS-232 port.

Connectivities



- Our devices are available with different connectivity technologies.
- Choose the one that best suits your needs or let us advise you.
- Sigfox communications.
- LoRa communications.
- 2G/3G, SIM card .
- NB-IOT.

Physical properties of the box



Protection index	IP-67
Height	72 mm
Width	145 mm
Depth	75 mm
Weight	600 gr



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C/Vertical VI-Nº2

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