

- ▶ *Rechargeable battery with solar cell*
- ▶ *Unaffected by solarization*
- ▶ *Ventilator can be operated remotely*
- ▶ *Measuring data direct available*



Celsius

Accurate insight into the greenhouse climate

With the Sense2Grow Celsius you have a wireless climate sensor that can accurately measure temperature and humidity. The Celsius is fitted with a solar cell with battery which makes recharging unnecessary. When you hang the Celsius in a dark room you can suffice with recharging the battery on an annual basis. For an even higher accuracy, the Celsius is fitted with a ventilator that can be operated remotely. Due to the fact that the sensor communicates via LoRa RF technology, the Celsius can be placed anywhere you like. You are guaranteed a reliable wireless communication, both in the greenhouse, buildings and industrial site as well as in the open field. The status of the system and the sensor batteries are displayed on your dashboard.



Specifications

Accuracy

Normal conditions:

Humidity 20 - 80% RH = \pm 3% Temp. 5 - 60°C = \pm 0,4°C

Humidity 0 - 100% RH = \pm 5% Temp. -20 - 80°C = \pm 0,8°C

With solarization without ventilator:

Humidity 20 - 80% RH = \pm 3% Temp. 5 - 60°C = \pm 0,8°C

Humidity 0 - 100% RH = \pm 5% Temp. -20 - 80°C = \pm 1,2°C

With solarization with ventilator:

Humidity 20 - 80% RH = \pm 3% Temp. 5 - 60°C = \pm 0,5°C

Humidity 0 - 100% RH = \pm 5% Temp. -20 - 80°C = \pm 0,9°C

(Temp. = Temperature)

Casing

The polypropylene (PP) open case is UV resistant; optimal protection from solarization (infrared).
Compact size (12x12x12cm, without the antennae).
The electronics have a special coating against any moisture effects.

Rechargeable battery

The sensor has 2 integrated lithium-ion batteries that are charged through the solar cell which makes external recharging unnecessary.

USB Power Bank

For applications in dark rooms, the sensor can be charged using a standard USB Power Bank (minimum of 4000 mAh).
The sensor does not have to be relocated.

Ventilator

The ventilator is powered by the solar cell and can be turned off remotely during sprinkler activities in the greenhouse.

Weight

542 grams

Easy to install

The sensors are hung in the greenhouse with a wire, at the location and height you desire. With a simple app on your smartphone, you can register the sensor. The measurement data and the status of the sensors are displayed immediately.

Dashboard

The Sense2Grow dashboard is a software application on your smartphone or PC and provides you with a current overview of the temperature and humidity in the greenhouse every five minutes. It also gives you insight in the status of the overall system, the radio network and the battery of the climate sensor.

External connections

The available data can be supplied, upon your request, to third parties via standard interfaces including the connection with the online platform Letsgrow.com.

More information



John den Ridder

Contact via +31 182 - 59 4000 or
look further at www.sense2grow.com

Sense2Grow

Sense2Grow unlocks sensors in a simple wireless manner that can be used to establish an intricate sensor network. This will generate data that you can use for controlling and guarding your business processes. The data is translated into information and thus provides you with a better and more current overview of your business management. This, in turn, creates insights for improving and innovating business management.

Contact

Burgemeester Jamessingel 1
P.O. Box 2013
2800 BD GOUDA
The Netherlands

www.technolution.com