



ENVIRONMENT SENSOR QUICKGUIDE

What is it?

The ambient sensor is a set of industrial quality climate sensors, which measures the environmental values most demanded by agricultural professionals: ambient temperature (°C), atmospheric pressure (hPa) and relative humidity (%).

Through these data, other climatic values can be obtained such as the calculation of the evotranspiration of a crop, the dew point, etc.

The VISUAL AMBIENTE sensors come in a small housing with a solar shield that connects directly.



Technical characteristics

Measurements:

Ambient temperature (°C) (Range -40 / 85°C and resolution 0.5%)

Atmospheric pressure (hPa) (Range 300/1100 hPa and resolution 1 hPa)

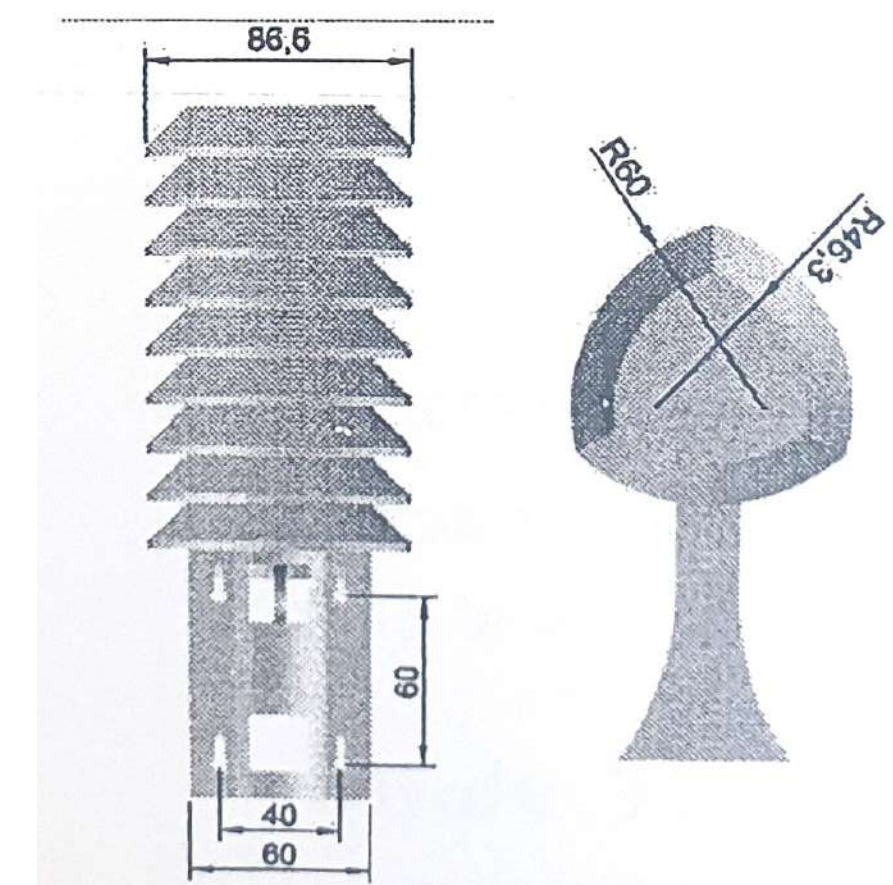
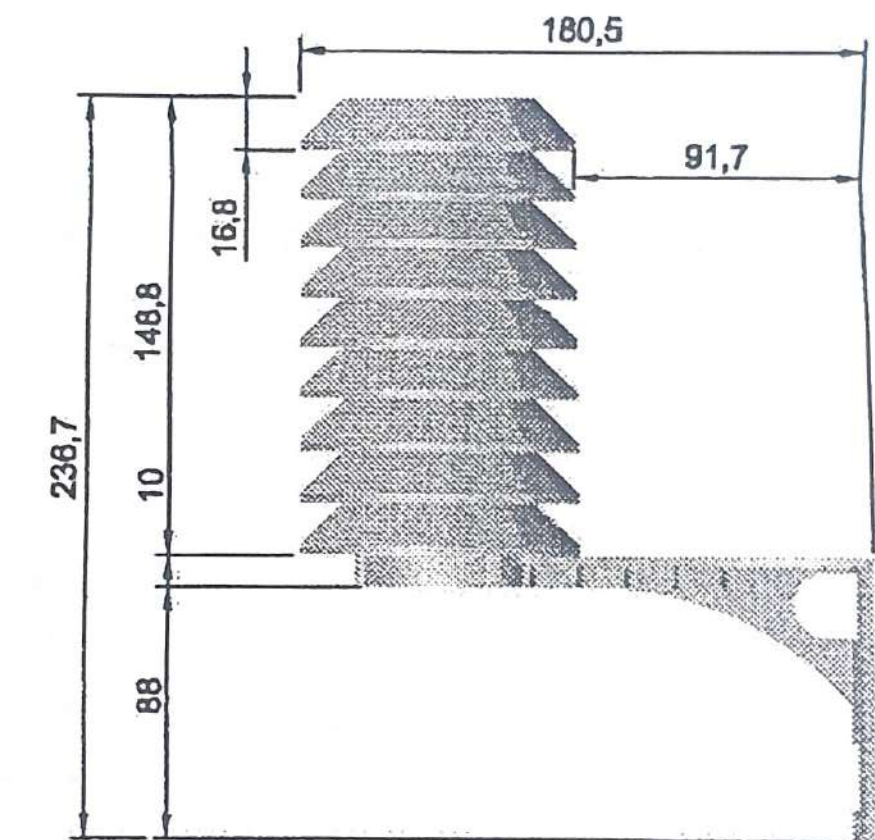
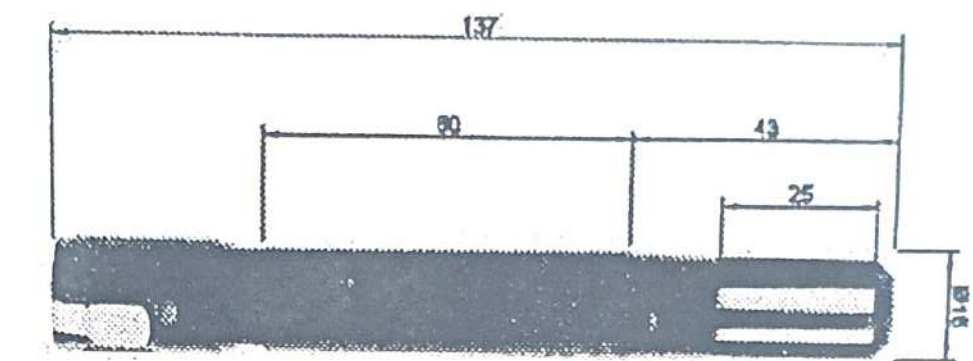
Relative humidity (%) (Range 0/100% and resolution 1%)

Connection: Push-Pull (waterproof)

Communication: RS485

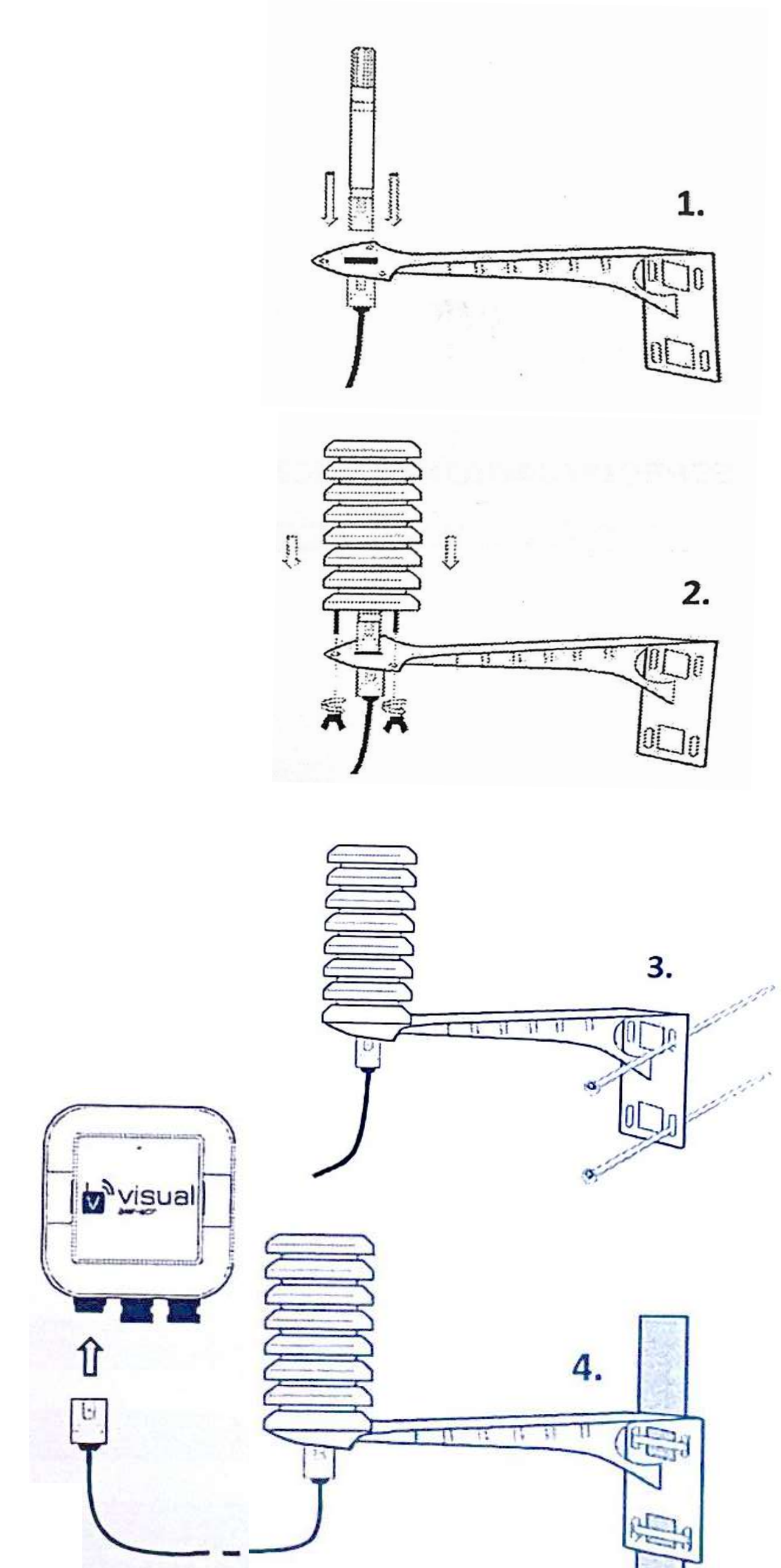
Dimensions: 135x15 mm diameter.

Solar shield: 2m cable.



Instalation

1. Plug the measuring instrument into the frame holder connector.
2. Insert the fixing rods of the sunscreen into the holes, and screw in the “wing” screws all the way.
3. Fix the frame support (with the sensor connected inside the sun shield) in position as shown in the image, on a fixed and stable surface (stake, post, wall, etc.) using cable ties, or by screwing it.
4. Connect the connector to the transmitter, and fix the cable so that it does not disturb.



Real case instalation





Care and maintenance

Determine the ideal location for measurements based on your needs. It must be an area or enclosure.

Firmly anchor the structure of the sunscreen, avoiding being in the area of personnel or machinery.

Avoid installing it near heat-absorbing materials such as metal posts, sheets, hot or cold air inlets / outlets, etc. And at least 3 meters from the ground.

Do not try to pick up the sensor by pulling on the cable. It can damage it.

The sensor is inside its housing with a porous surface that allows temperature, humidity and atmospheric pressure to pass through. It should not be submerged in water and although it has resistance to ambient water, it should preferably be kept dry.

Do not try to access the sensor electronics. It can damage it.

Avoid using and storing in areas subject to extreme temperatures, which are outside the working range (see technical data sheet).

When the sensor is not in use, it is advisable to store it clean, in a dry place and use the packing materials provided.



Usage warnings

- Make a note of the sensor location, with references if necessary. You can also mark its position on the spot. Once installed and over time, it can be difficult to locate.
- Identify numerically the sensors of the same VISUAL BOX, according to its connector, associating it with its position or depth.
- Check that the cable is not placed in such a way that someone can trip over it or that it does not interfere with the normal tasks of your cultivation or the passage of machinery.
- Do not try to remove the sensor by pulling on the cable, you could damage it.
- Do not bury the VISUAL BOX module.
- The incorrect installation of the sensor in the ground can give incorrect measurements and even break it.
- Sensor measurements depend on many soil factors and should be used as a guide. To validate them, they must be contrasted with analysis in certified laboratories or with duly calibrated devices, and if necessary, apply a conversion factor.
- Use caution with the sharpness of the sensor rods. Keep it away from children.
- If you have any questions, contact us.



Support - Do you have any questions or concerns?

We test, install, calibrate and repair each sensor where you need it. Our technicians use the instruments every day. No matter what the question is, there is always someone available.

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