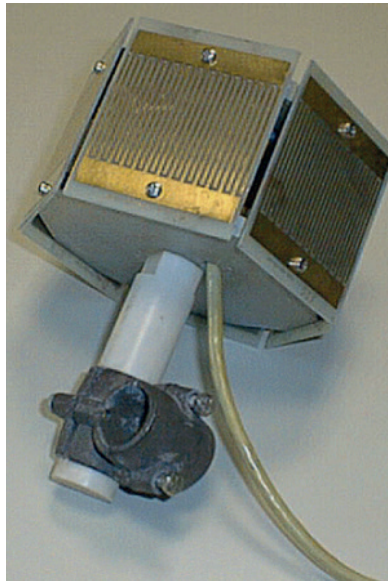




## LW6 LEAF WETTING SENSOR

Leaf wetting measurement sensor



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### PRODUCT DESCRIPTION

The LW6 leaf wetting sensor consists of six variously oriented measurement surfaces. The important role that leaf wetting plays in the onset and during development of some plant diseases is well known, so using the sensor is essential for any station whose objective is to survey the phytosanitary conditions of the crops.

The presence of water on leaves is due to either rain or dew that forms by condensation of the atmospheric humidity, that is when the leaf surface temperature is lower than the water dew temperature.

### OPERATION

The principle of operation of the leaf wetting sensor is based on the measurement of the value of resistance between two gold-plated copper combs on a fibreglass plate 65.5x80 mm in size (size of the artificial leaf).

When there is even a minimum layer of water on the surface of the plate, conductivity is maximum and the electronic circuit associated with the sensor gives the "wet leaf" state in output; on the contrary, conductivity is practically nil if the leaf is dry.

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## MAIN FEATURES

### Easy maintenance:

the sensor needs no particular maintenance work; it is only advisable to periodically clean the printed circuit plates with a cotton wad soaked in water.

### Sturdy and reliable construction:

lastly makes it an instrument with a long lifetime, which safeguards the customer's investment.

## INSTALLATION

The sensor must be installed in an open zone, tilted about 30° compared to the ground, to prevent stagnating water on the sides from altering the measurement.

The sensor is supplied with a support for assembly on a horizontal support and an electronic power supply and amplification box.

## COMPONENTS THAT CAN BE ADDED OR BE BUILT INTO THE PRODUCT

None

## TECHNICAL SPECIFICATIONS

SPECIFICATIONS	
Sensor type	6 printed circuits with gold-plated combs
Range of measurement	Dry/Wet
Output	5V Dry - 0V Wet
Power supply	5V
Operating temp	-5°C / +60°C
Storage temp	-40°C - +80°C