

ADCON Leaf Wetness Sensor

The Adcon Leaf Wetness Sensor was developed to provide users with a robust and low-maintenance alternative to the traditional style sensors using sheets of paper or human or animal hair. A grid of conductive tracks, etched onto a Teflon-coated ceramic plate reliably simulates the surface of a leaf and outputs a range of readings between 0 and 10.



In order to properly simulate the behavior of a leaf the sensor should be installed right inside the foliage. Direct sunlight and excessive exposure to wind should be avoided, as both will significantly shorten the indicated leaf wetness duration.

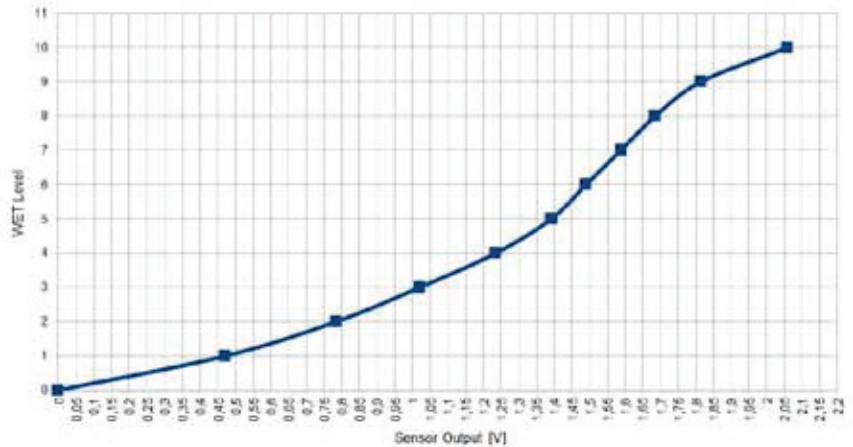
In Adcon's addVANTAGE Pro software the interpretation of the sensor's output is based on empirical observation of the behavior of moisture on large-leaved plants. In all disease models currently implemented in addVANTAGE Pro 5.x and 6.x sensor values between 0 and 3 are interpreted as dry, while values from 4 to 10 represent wet. For leaves with particular wetting patterns, or for disease models requiring intermediate steps between wet and dry different sensor drivers can easily be implemented.

Maintenance: occasional cleaning with a wet cloth, e.g. after spraying, will suffice.

A mast mounting arm, bracket, clamps and a 3m cable with Adcon's standard 7-pin connector are included.

Applications

- Agricultural Weather Stations
- Disease Modelling



Technical data

| | | | |
|--------------------------|-------------------------------------------------------------------------------|----------------------|---------------------------------------|
| Dimensions incl. bracket | 450 x 90 x 90mm L x W x H | Output signal | 0 ... 2,5 V DC |
| Weight | 500 gr. | Repeatability | ± 3% |
| Materials used | Sensor: Teflon coated ceramics Mounting arm: aluminum with plastic holders | Supply voltage | 5.5 ... 12 V DC |
| Protection class | IP-66 | Mounting | on poles with 40 - 50mm in Ø |
| Operating environment | -20°C ... +60°C; 0 ... 100% rh | Cable and connector | 3m cable, 7-pin Binder M9 male |
| Measuring Principle | capacitive condensation sensor | Ordering Information | 200.733.060 Adcon Leaf Wetness Sensor |