

PHYTOS-31 LEAF WETNESS SENSOR

METER



Leaf wetness-simplified

Diseases and infections can destroy an entire crop, but at the same time, applying fungicides is costly and time-consuming. If you're deciding when to spray by monitoring leaf wetness with a resistance grid sensor, you'll have trouble accurately determining wetness duration without a lot of extra work.

Say goodbye to guesswork

The PHYTOS-31 measures both the onset and duration of wetness on a simulated leaf, which in turn predicts when the onset of certain diseases or infections may occur. It's not only a more accurate instrument, it's also the easiest to set up, making it a simple and straightforward solution to several problems.

Accuracy you can feel secure about

Only the PHYTOS-31 ensures that every water droplet is measured. It's able to achieve this in a couple of different ways:

First, unlike conventional leaf wetness sensors, its resistance grid doesn't use salt-laced latex paint which absorbs water. This gives it extra sensitivity to avoid false positives. So there's no having to cull data to figure out if the sensor was really wet or not.

Second, PHYTOS-31 uses capacitance technology, so it can sense sub-milligram levels of water condensing on the surface, including frost and ice formation. That way you can establish a threshold that not only indicates when the sensor is wet, but also senses how much water there is. This kind of moisture clarity reduces guesswork and worry about accurately predicting disease conditions.

Simple as nature

When your moisture sensor mimics the energetics of an actual leaf, making measurements is a lot easier. There's no having to paint your sensor's non-resistance grid first to get good data. No creating thresholds. And no worrying about lots of wiring. Instead, all you have to do is plug the PHYTOS-31 into the ZL6 data logger, where wet and dry threshold ranges are already programmed in. The result: you save time.



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Features

- Accurate
- · Easy to use
- Detect leaf wetness and ice formation
- Sensitivity without false positives
- · Mimics a real leaf, so moisture will condense/evaporate as it would on a normal leaf
- Plug and play capability
- Use with the ZL6 data logger for remote data collection
- No need to create thresholds when used with the ZL6 data logger



Specifications

PHYSICAL SPECIFICATIONS

Dimensions	Length: 12.0 cm Width: 5.8 cm Height: 0.8 cm
Cable length	5 m (standard) 40 m (maximum custom cable length)
Connector types	3.5-mm stereo plug connector or stripped and tinned wires
Operating Temperature Range	Minimum : -40°C Maximum : 60°C

ELECTRICAL AND TIMING CHARACTERISTICS

Supply voltage	Minimum: 2.5 VDC Typical: NA Maximum: 5.0 VDC
Settling time	10s
Output	300-1,250 mV (depends on excitation voltage)
Data logger compatibility	Data acquisition systems capable of switched 2.5-5.0 VDC excitation and single-ended voltage measurement at greater than or equal to 12-bit resolution.
COMPLIANCE (CE Mark)	Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010



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