



PHYTOS 31: LEAF WETNESS SENSOR

DESCRIPTION

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 have 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.



PHYTOS 31

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

Through sophisticated, yet simple engineering, PHYTOS 31 delivers unmatched accuracy in an easy-to-use sensor. It saves you both time and labor, while reducing your worry and guesswork.

PHYTOS 31: LEAF WETNESS SENSOR

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.

SPECIFICATIONS	
Dimensions	Length: 12.0 cm (4.7 in) Width: 5.8 cm (2.3 in) Height: 0.8 cm (0.3 in)
Operating temperature range	Minimum: -40 °C Typical: NA Maximum: +60 °C NOTE: Sensors may be used at higher temperatures under certain conditions; contact Customer Support for assistance.
Cable length	5 m (standard) 40 m (maximum custom cable length) NOTE: Contact Customer Support if a nonstandard cable length is needed.
Connector types	3.5-mm stereo plug connector or stripped and tinned wires
ELECTRICAL AND TIMING CHARACTERISTICS	
Supply voltage	Minimum: 2.5 VDC Typical: NA Maximum: 5.0 VDC
Settling time	10 ms
Output	300–1,250 mV (depends on excitation voltage)
Data logger compatibility	METER data loggers (ZL6, EM 50/60 series) or any data acquisition systems capable of switched 2.5–5 VDC excitation and single-ended voltage measurement at greater than or equal to 12-bit resolution.
COMPLIANCE	Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010 (CE Mark)

Contact info



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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. You need a sensor with automatic thresholds, like the PHYTOS 31.

This Instrument is manufactured by our principle company

METER Environment - USA