METER

PHYTOS 31

Leaf Wetness Sensor

LEAF WETNESS—SIMPLIFIED

Diseases and infections can destroy an entire crop, but 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 an accurate sensor that is simple to set up with stable, consistent, easy-to-use thresholds like the PHYTOS 31.

SAY GOODBYE TO GUESSWORK

The PHYTOS 31 accurately 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, but it's also the easiest to set up, and when paired with the ZL6 data logger, it gives you access to remote data in real time, making it a smart, simple and straightforward sensing solution.

FEATURES

- Accurate and 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

SPECS

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:** -40.00 °C **Typical:** NA **Maximum:** 60.00 °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.**
Cable Diameter	0.165 ±.004 (4.20 ± .10 mm) with min. jacket of .030 (.76 mm)
Connector Types	3.5-mm (stereo) plug, or stripped and tinned wires
Stereo Plug Connector Diameter	3.50 mm
Conductor Gauge	22 AWG/24 AWG drain wire
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	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	EM ISO/IEC 17050:2010 (CE Mark) Prop 65 warning
GSA	View GSA details

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