

# Leaf Wetness Sensor LWS-31<sup>TM</sup>

## DATA SHEET



## FEATURE SUMMARY

- Capacitance / frequency technology
- Detects presence of condensation, frost, and liquid droplets.
- Fast response
- Made in USA

## DESCRIPTION

**Leaf Wetness Sensor LWS-31<sup>TM</sup>** gives an indication of the presence or condensation or water droplets on leaves or surfaces.

The device can be attached to a stem or branch within the canopy. Alternatively, the sensor can be attached to a stake or pole and indicate rain or dew conditions.

**LWS-31** is manufactured in the USA by METER Group.

LWS-31 can be attached to **Dyacon CM-1<sup>TM</sup> Weather Station Control Module**. Data can be viewed remotely on DyaconLive.

The capacitance/frequency technology of **LWS-31** provides an immediate response to droplet presence.

## Applications

Leaf wetness may be used to detect:

- Irrigation operation
- Rain
- Condensation
- Herbicide or pesticide coverage
- Roadway surface conditions
- Frost formation

## KEY FEATURES

**Construction:** LWS-31<sup>TM</sup> is fully sealed for direct exposure to rainfall.

A 5 m cable is resistant to soil and sun exposure.

**Interchangeability:** Sensors may be interchanged and replaced by the user without calibration.

**Data:** Analog sensor output is compatible with a wide range of instruments. Water content is proportional to analog output.

**Installation:** LWS-31 can be simply attached to a plant stem or structural post using the two mounting holes.

**MEASUREMENT\***

Measurement Time	10 ms
Output	300 mV to 1250 mV

\* Specifications determined by manufacturer.

**ELECTRICAL**

Input	2.5 VDC – 5.0 VDC, 10 mA typical
Current	8 mA at 5VDC <2 mA on Dyacon CM-1

**MECHANICAL**

Dimensions	12 cm x 5.8 cm x 0.8 cm (4.7" x 2.3" x 0.3")
Cable	5 m Shielded

