



TOIP Pty
Ltd
Telemetry Over Internet Protocols

SDI-12 Leaf Wetness Sensor

The LWS01 is an SDI-12 leaf wetness sensor for use in crop disease management.

LWS01 Leaf Wetness Sensor

The TBSLWS01 leaf wetness sensor utilises the SDI-12 protocol and thus may be connected to any SDI-12 compatible logging device or telemetry unit. The sensor returns the level of moisture on the unit's surface as well as the sensor temperature - once the sensor is installed in the crop canopy these will follow the level of moisture on the leaf and the canopy temperature.

The sensor is supplied with a moulded mounting bracket which can be fitted to a mounting arm and the sensor mounted in the canopy of the plant of interest.

Leaf Wetness Sensors act as an artificial leaf and condensation will form on them at the same rate as it does on a leaf surface. As many crop diseases and pathogens flourish in conditions of high leaf wetness, the leaf wetness sensor becomes a vital component in many plant diseases.

Specifications

| | | |
|-----------------|--------------|----------------------------|
| Power Supply | | 6 to 16 V DC |
| Dimensions | Sensor | 140 mm |
| | Leaf Element | 60 x 40 mm |
| Temperature | | |
| Measuring Range | | -40 to + 80 °C |
| Resolution | | 0.01 °C |
| Accuracy | | -40 to +5 : +/- 1 °C |
| | | +5 to +60 : typ +/- 0.2 °C |
| | | max +/- 0. °C |
| | | +60 to +80: +/- 0.75 °C |
| Leaf Wetness | | |
| Accuracy | | Not specified |
| Resolution | | 0.04 % |
| Measuring Range | | 0 to 100 % wetness |



Ordering

| | |
|--------|-------------------------------|
| LWS01 | SDI-12 Leaf Wetness Sensor |
| HOLDER | Aluminium Sensor Mounting Arm |

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