



**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 TBLSWS01 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 an aluminium mounting bracket which can be bent to allow the sensor to be mounted at a typical leaf angle 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

TOIP Pty Ltd  
58 George St MOONTA SA 5558 AUSTRALIA

Email: [sales@toip.au](mailto:sales@toip.au) Web: <https://toip.au>  
Phone: 08 8825 1208 Mob 04 9805 3413