



# TCS5120 雨滴感知器

TCS5120 Leaf Wetness Sensor

專用於戶外各環境監控、學校、農業、實驗室、氣象、室內採光雨感控制等~

The Model TCS5120 leaf wetness sensor detects the presence of surface moisture. The Model TCS5120 leaf wetness sensor is an artificial-leaf electrical resistance type, a surface contact type of sensor, which is used to measure leaf wetness with its circuitry of interlacing gold-plated fingers. The moisture or condensation on the sensor which decreasing the resistance between. the fingers can be measured by a datalogger.

As color and paint on sensor surface normally affects its performance, hence, we supply the TCS5120 leaf wetness sensor unpainted for most applications.

Normally, a sharp change in resistance at the wet/dry transition between 10 to 200 K Ohm or even lower can be found on the TCS5120 sensor, therefore, the resistance at the wet/dry transition point should be determined. A sensor mounting bracket is included to hold the sensor at a 45° angle to simulate a typical leaf position and to permit runoff of excess moisture or water, and it can be mounted on a vertical post, round pipe or on a sensor mounting arm.

## Technical Specification

- Wet/Dry threshold : A defined resistance in K Ohm
- Time of Wetness : Wet fraction in datalogger's recording interval
- Power requirement : Excitation voltage(DC1-5V)
- Dimension : 11.5 cm(L)x5.4 cm(W)
- Accessory : Stainless steel sensor mounting bracket included

