

# TruSense

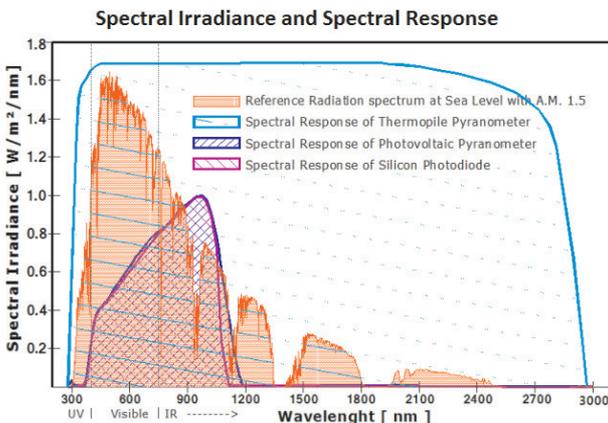
## Input Module

# LE-TS

The TruSense Input modules are an I2C based module with memory and the interface to the sensors. When an Input module is connected to a TruSense logger the logger reads the Input Module's memory and this gives the logger all the information on the sensors that may be attached to the module.

The LE-TS module is a photovoltaic pyranometer for measuring solar irradiance or solar energy in  $W/m^2$ .

The active part of the sensor is composed of a photovoltaic cell working in near short-circuit condition. As such, the generated current is directly proportionate to the solar radiation hitting the cell in a range between 350 nm and 1150 nm



## Specifications

### Size

Dimensions  
Weight  
Material

70x38x51mm  
160g  
Machined cast acrylic shield, Aluminium mounting

### Environment

Protection  
Operating Temp.  
Storage temp.

Ip67,  
-10°C to 70°C  
-20°C to 75°C

### Solar irradiance

Device  
Range  
Resolution  
Accuracy tolerance  
Operating Range  
Temperature coef.  
Cosine error

Photovoltaic cell  
0~1500W/m<sup>2</sup>  
1W/m<sup>2</sup>  
±5%  
-10°C to 70°C Ice will effect accuracy.  
0.15% per 1°C.  
Typically less than 3% from vertical to 80° in all directions.