

LoRaWAN Sensor Device

Total Solar Radiation



Sensors

Self-Powered Pyranometer SP-110

Range: 0 ... 1750 W m⁻²

Spectral Range: 360 to 1120 nm (wavelengths where response is 10 % of maximum)

Measurement Repeatability: Less than 1 %

Non-stability (Long-term Drift): Less than 2 % per year

Typical applications include shortwave radiation measurement in agricultural, ecological, and hydrological weather networks.

5m cable, longer cable on request

LoRaWAN specifics

Device class A

Over the air activation (OTAA)

Adaptive data rate (ADR)

Frequency band: 868 MHz (EU Version)

Input Sensitivity: -148 dBm

Supply

Internal battery 2 x C-type

Integrated sensor supply

Operating conditions

-30°C to 60°C

100% RH

Weight

250g w/o batteries

Dimensions

80 x 135 x 70 mm

Enclosure

Weatherproof IP67, impact and UV- resistant polycarbonate enclosure

Dimensional drawings (only enclosure)

