

TOIP Pty
Ltd
Telemetry Over Internet Protocol

SDI-12 Solar Radiation Sensor

The SDI-12 Solar Radiation sensor employs the world renowned Kipp and Zonen SP-Lite sensing element. This sensor provides excellent linearity and spectral response and has reliability and long field life. For ease of use the sensor is fitted with an internal amplifier and converter which provides an SDI-12 interface

SDI-12 Solar Radiation

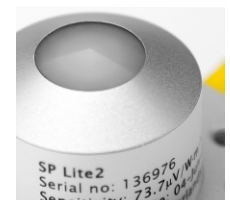
Solar radiation sensors monitor the energy reaching the ground from sunlight and are an important component in the determination of crop evapo-transpiration.

The SDI-12 Solar Radiation Sensor (SDI-SR) capitalises on the rapid growth of the SDI-12 protocol in the environmental monitoring sector which has occurred at the same time as a rapid growth in the number of measurements required.

Rather than fit data loggers and telemetry units with multiple, high resolution channels, SDI-12 allows a number of sensors to be connected via a simple 3 wire interface. SDI-12 allows calibrations to be performed in the "smart sensor," passing real measurements to the logger.

Kipp and Zonen have been manufacturing radiation sensors since 1927 and are recognised as a global leader in the field, supplying sensors in their own name and on an OEM basis to many other manufacturers.

The SP-Lite is a full spectrum sensor (400 to 1100nm). It is supplied with an aluminium mounting arm and levelling device. The unit employs a photodiode as the sensing element.



Parameter	Specification
Power Supply	6 to 16 V DC
Spectral Range	-400 to 1100 nm
Sensitivity	60 to 100 uV/W/m ²
Response Time (95%)	< 500 nS
Directional Error	< 10 W/m ²
Sensitivity	60 to 100 uV/W/m ²
Temperature Response	< -0.15% / °C
Temperature Response	< -0.15% / °C
Operating Range	-40 to + 80 °C
Max Radiance	2000 W/m ²

Ordering

SDI-SR SDI-12 Solar radiation sensor with mounting arm and adjustable base

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