



TOIP Pty
Ltd
Telemetry Over Internet Protocols

RK200-04 Solar Radiation Sensor

The RK200-04 is a global radiation sensor with an SDI-12 interface. It features a silicon cell measuring element and is ideal for use in Evapotranspiration calculation in Agricultural settings.

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 RK200-04 utilises a cost effective silicon cell to measure radiation levels.

The RK200-03 is a full spectrum sensor (300 to 3200nm). Incoming light is passed through a glass dome to ensure that the fraction of light reaching the sensor remains constant from summer to winter and sunup to sunset.

The glass dome also transmits light evenly across the spectrum, allowing it to offer a much wider light range and more uniform response than that offered by sensors which use a teflon diffuser.



Parameter	Specification
Power Supply	12 to 24 V DC
Spectral Range	-300 to 3000 nm
Range	0 to 1500 W/m ²
Response Time (95%)	< 5 sec to 99%
Directional Error	< 10% for 0 to 180 degrees
Sensitivity	60 to 100 W/m ²
Temperature Response	+/- 0.08% per °C
Stability	+/- 2% per year
Operating Range	-40 to + 60 °C
Weight	0.42 kg
Accuracy	3 %

Ordering

RK200-04 SDI-12 Solar radiation sensor

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