



TOIP Pty
Ltd
Telemetry Over Internet Protocols

RK200-03 Pyranometer

The RK200-03 is a Pyranometer with an SDI-12 interface. It features a Thermocouple measuring instrument and integrated temperature compensation thermistor. It conforms to the WMO standards for pyranometers and is suitable for use in all demanding radiation measurement applications.

SDI-12 Pyranometers

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

The RK200-03 uses a thermocouple for radiation measurement. The thermocouple body is black and will heat up in proportion to the level of solar radiation which reaches it. The thermocouple in turn produces an output voltage proportional to the radiation level. A PT1000 thermistor measures body temperature and is used to compensate for air temperature changes.

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.



Parameter	Specification
Power Supply	12 to 24 V DC
Spectral Range	-300 to 3200 nm
Range	0 to 2000 W/m ²
Response Time (95%)	< 35 sec to 99%
Directional Error	< 10 W/m ²
Sensitivitty	7 to 14 W/m ²
Temperature Response	+/- 2% for -10 to +40 °C
Stability	<2% per year
Operating Range	-40 to + 60 °C
Weight	2.5kg

Ordering

RK200-03 SDI-12 Pyranometer

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