

SOLRAD



SOLRAD radiation indicator is a hand-held read-out/integrator for the majority of Kipp & Zonen radiometers. The calibration factor of the sensor is entered and the radiation indicator displays in real-time the measured value in the correct units for the type of sensor that is used. It can accept a single analog voltage input up to 10 V.

SOLRAD can also integrate the measured values over a time period. Both manual reset and automatic reset of the integrator can be selected. The automatic reset occurs at midnight (according to the internal clock). Up to 31 integrated values can be stored in the internal memory. This allows for a month of daily values. It can operate for over 24 hours using the internal PP3 battery; an AC power adapter is included.

The measured values and the integration totals can be transmitted to a personal computer through the SOLRAD's RS 232 serial port. The supplied software enables you to display real-time values; log measured and integrated values to disk, and graphically displays data. The data that is stored on the computer disk can be processed with popular spreadsheets such as Excel.

Specifications

Analog inputs	1
AD conversion resolution	Resolution 1:10.000 bits Temperature coefficient <0.01 %/°C Conversion rate: > 10 samples per second
Accuracy	< 0.1 %
Input ranges	1 mV to 10 V
Operating temperature range	-10 °C to +40 °C
Display	2 x 16 characters
Power requirements	9 Volt PP3 battery (included) Mains adapter (included)
Communication interface	RS 232, cable included
Functions	Real-time or integrated value read-out Integrator reset-method: manual or automatic Internal clock Internal storage of last 31-measured integration values
Integrator	Update of integrated value every two seconds
Battery life-time	25 hours at least
Software, Windows™	Data download, real-time display, graphical display

Article

Part number

SOLRAD Irradiance Meter and Integrator

3303008

Note: SOLRAD is not a data logger, it only records integrated values