

Ammonit Soiling Monitor

SD2200



Ammonit Soiling Monitor

Order number

SD2200

Availability

Usually on stock

Ammonit Soiling Monitor: Quantify the impact of soiling on your solar projects

Ammonit Measurement GmbH
Measuring wind and solar power

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Description

Quantify the impact of soiling on your solar projects with our next-generation, IEC 61724 compliant Ammonit Soiling Monitor

- Compliance with IEC 61724 ensures high performance and bankability
- Switched Measurement for higher accuracy: Switches to short-circuit current only during measurement times span as required by the IEC
- Broad Compatibility: Works with various solar module types and sizes
- Flexible Data Analysis: Works best with AmmonitOR for easy data analysis
- Enhanced Accuracy: Features now active temperature sensors
- System Requirement: Only for Ammonit Meteo-42 data logger

Specifications

I-U Conversion and Control Box

General Information

Switched Measurement	Switches to short circuit only during measurement as required by IEC
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Electrical Characteristics

Continuous Current	15 A
Peak Current	40 A
Shunt Resistance	50 mΩ
Shunt Tolerance	1 %
Shunt Temperature Coefficient	< 50 ppm/K (20 ... 60 °C)
Max. Input Voltage	48 V
Supply voltage	12 ... 28 V (DC)
Max. supply current	50 mA

Physical & Environmental

IP Class	IP65
Dimensions	160 x 100 x 81 mm
Cable length	10 m

Active Surface Temperature Sensor

Sensor Type	Pt 100 class B
Sensor Capture	Silicon rubber patch
Temperature Range	-50 ... 150 °C
Supply voltage	12 ... 28 V (DC)
Output voltage	0 ... 10 V
Measurement Uncertainty	1.0 K (@ -40 ... +80 °C)
Dimensions	40 x 13 x 5 mm
Cable length	10 m

The table below shows the data for the 12 V/50 W Solar Modules provided by Ammonit. Please note that the Soiling Monitor is compatible with other solar modules within the specifications and limitations of the I-U Conversion and Control Box.

Solar Module (50 W / 12 V)

Module Type	Monocrystalline
Standard Test Conditions (STCs)	1000 W/m ²
Solar irradiance	25 °C
Cell temperature	
Peak Power (Pmax)	50 W
Short Circuit Current	(Isc) 3.07 A (up to 15 A)
Temperature Coefficient of Isc (TK ISC)	0,081 %/°C
Dimensions	650 x 505 x 35 mm
Weight	approx. 4.8 kg (without cable)