



MS-093 Sunshine Duration Sensor

Technical Specifications

Very precise under all measurement conditions

Measurement uncertainty <10 minutes per day

Pyro-electric detector (300 nm - 2500 nm)

Measures sunshine hours >120 W/m²

The MS-093 is a high-quality sunshine duration meter. A unique measurement concept with rotating mirror and broadband sensor accurately measures the broad-band direct solar radiation.

The sensor utilizes a rotating mirror, which reflects the direct beam onto a pyro-electric detector once per revolution. By using this method, the MS-093 can measure the true direct broad-band radiation.

The MS-093 is unique compared to other dedicated sunshine duration sensors, which are based on an indirect measurement principle using photodiodes with a limited spectral range and accuracy.

	MS-093
ISO 9060:2018	-
Output	Analog (100 pulses/hour)
Directional response	-
Temperature response -20°C to 40°C	+/- 5 %
Non-linearity	+/- 2.5 %
Operating temperature range	-20 - 40 °C
Wavelength range	300 - 2500 nm (50% points)
Power supply	12VDC, 400mA
Dimensions mm	350 (W) x 250 (L) x 200 (H)
Weight	2.5 kg
Ingress protection IP	67
Cable length	10 m
Power consumption	< 5 W

Options	MS-093
Cable length	20 / 30 / 50 m
Base plate	350 x 250 / leveling feet mm
Power supply	100 to 240 VAC / 12VDC / 200 x 140 x 80mm / 2.5 kg

Specifications are subject to change without further notice.