



MS-20 Pyrgeometer

Technical Specifications

4.5 μ m - 42 μ m flat spectral response

Low window heating

PT 100 temperature sensor

Temperature compensation

WISG traceable calibration

Pyrgeometer MS-20 is a scientific grade instrument designed to measure long-wave radiation. A special coated Silicon dome transmits incident radiation above 4.5 μ m by cutting off the shorter wavelengths of the Sun spectrum. The special meniscus shape provides 180° field of view. Due to very low window heating the MS-20 pyrgeometer can be used for daytime and nighttime measurements without need for shading.

With the optional MV-01 ventilator/heater the MS-20 can be operated free of condensation, frosts and snow in the harshest environmental conditions. Special albedo kit is available to measure net radiation.

MS-20 is supplied with WISG (World Infrared Standard Group) traceable calibration and 5 years warranty.

	MS-20
Response time 95%	< 18 Sec.
Non-linearity	+/- 1 %
Sensitivity	Approx. 4 $\mu\text{V}/\text{W}/\text{m}^2$
Temperature response -10°C to 40°C	< 1 %
Operating temperature range	-40 - 80 °C
Wavelength range	4.5 - 42 μm
Dome temperature	-
Body temperature	PT-100
Field of View FOV	180 °
Cable length	10 m

Options	MS-20
Cable length	20 / 30 / 40 / 50 m
Ventilation unit	MV-01
Albedo mounting kit	MS-albedo kit (for net radiation)

Specifications are subject to change without further notice.