



## MS-20 Pyrgeometer

### Technical Specifications

4.5 $\mu$ m - 42 $\mu$ 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 $\mu$ 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.

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

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

Specifications are subject to change without further notice.