

MS - 202 Pyrgeometer

Pyrgeometer MS-202 is designed to measure long-wave radiations beyond $3\mu\text{m}$. A specially coated silicon dome transmits incident radiation which have a wavelength above $3\mu\text{m}$ by cutting off the shorter wavelengths of the sun spectrum. A radiative compensation circuit with a thermistor is integrated in the MS-202. This circuit is used for the sensor body temperature measurement or to measure Long wave downward radiation in the active mode. The analog output voltage of the detector is linear to the net radiation emitted by the atmosphere and ground. A thermistor dome temperature sensor is available as an option. Pt-100 temperature sensor for both the sensor body temperature and the dome temperature is also available as an option.

Features

- $4\mu\text{m}$ - $50\mu\text{m}$ flat spectral response
- Low Window Heating (After Correction)
- Temperature Compensation
- Ld Active Mode



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Specs

Specifications (typical)	MS-202 / MS-202F
Response time 95% (sec)	3.0s (1-1/e)
Non-linearity	± 1%
Sensitivity	Approx. 4 mV/kW•m ²
Internal resistance	Approx. 300Ω
Operating temperature	- 20 to +40°C
Cable length	10m
Wavelength range	3 to 50 μm
Temperature compensation circuit	Lithium battery 3V, CR123A 3V Battery life 7months
Weight	2 kg (MS-202) and 3 kg (MS-202F)
Ventilation Unit for model MS-202F	DC12V 0.17A or AC100V 50/60Hz 12/10W

Options

- 1 Thermistor (body) with the circuit and additional Thermistor (dome)
- 2 Pt100 (body, 4 wire)output
- 3 2 Pt100 (body and dome, 4-wire) outputs
- 4 Ventilation Unit (model MS-202F)