

MS-21 Pyrgeometer

A New Standard in Longwave Radiation Measurement



Performance & Calibration Overview

Designed to raise the bar, the MS-21 Pyrgeometer is research-grade, accurate, robust and delivers superior stability independent of the sensors' operating temperature. Based on a new design concept and built for consistency, the MS-21 minimises temperature differences and suppresses window heating errors.

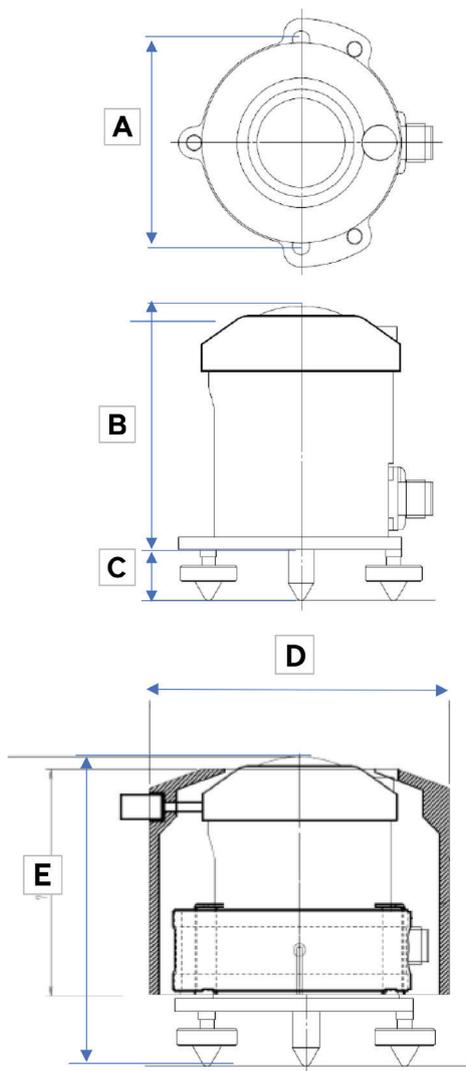
Made in Japan, each unit comes with a 5-year warranty and is assessed and adjusted by EKO engineers for first-rate temperature stability without any additional data manipulation or correction. PMOD/WSC calibration, coupled with calibration traceability to the World Infrared Standard Group (WISG), also help ensure that the MS-21 Pyrgeometer meets the highest quality, accuracy, and reliability standards.



Specifications

Measurement wavelength	4.5 to 42 μ m
Sensitivity	10 to 20 μ V/W/m ²
Response time	< 18 sec (@95%)
Window heating offset	< 4 W/m ²
Zero offset B	< 1 W/m ²
Temperature response	< 1 % (-20 to + 50°)
Non linearity	< 1 %
Operating temperature range	-40 to +80°
Net radiation measurement range	- 250 to 250 W/m ²
Field of view	180 degrees
Detector temperature sensor	Pt-100, 4 wires
Temperature tolerance value	\pm (0.15 + 0.002 *t) °C
Impedance (approx.)	100 to 200 Ω
Heater/Ventilation Unit (optional)	Compatible with MV-01

Technical Diagram



Dimensions

Items	MS-21
A. Fixing Hole Pitch	65mm
B. Body Height	76.6mm
C. Leveling Screw Height	16mm
D. Width (including Sun Screen)	φ97mm
E. Overall Height (approx.)	92.6mm

Technical Features

Bubble level accuracy	0.1°
Output Cable (Outer diameter)	AWG24: 0.25mm ² x 6 pins (φ6.7mm)
Output Cable Terminal	Pin-Terminal (9.3-9.5)
Weight	0.7kg

QR

Use the QR code to visit our website, contact our team, or to find out more about the **MS-21** and our full range of industry-leading, high-quality, scientific and meteorological measurements.



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