



## MS-40M Pyranometer

ISO 9060 Second class

Industrial sensor outputs (MODBUS RTU)

ISO 17025 certified calibration

Optional ventilator MV-01

5 years warranty

MS-40M Second Class pyranometer is based on the EKO's universal sensor platform with MODBUS RTU output. It is a cost effective solution for global solar radiation measurements. This sensor can be used in many meteorological networks and professional small scale PV sites where solar radiation is taken seriously. The MS-40M can be used with the optional MV-01 ventilator / heater.

The MS-40M pyranometers are manufactured in a consistent way followed by strict quality inspection and performance evaluation. EKO provides a unique calibration compliant to the international standards defined by ISO/IEC17025/9847.

The sensor has 5 years warranty with 2 years re-calibration interval are recommended and it is no longer necessary to change the desiccant.

<b>Specifications</b>	<b>MS-40M</b>
ISO 9060 classification	Second Class
Output	Digital (Modbus RTU)
Response time 95%	< 18 Sec.
Zero Offset A 200W/m <sup>2</sup>	< 12 W/m <sup>2</sup>
Zero Offset B 5K/hr	+/- 5 W/m <sup>2</sup>
Non-stability change/1 year	+/- 1.5 %
Non-linearity at 1000W/m <sup>2</sup>	+/- 1 %
Directional response at 1000W/m <sup>2</sup>	< 20 W/m <sup>2</sup>
Spectral selectivity 0.35-1.5µm	+/- 1 %
Temperature response -10°C to 40°C	< 3 %
Temperature response -20°C to 50°C	< 4 %
Tilt response at 1000W/m <sup>2</sup>	+/- 1 %
Sensitivity	-
Impedance	-
Operating temperature range	-40 - 80 °C
Irradiance range	0 - 2000 W/m <sup>2</sup>
Wavelength range	285 - 3000 nm
Ingress protection IP	67
Cable length	10 m
Power supply	12 - 24 VDC
Power consumption	0.2 - 0.3 W

<b>Options</b>	<b>MS-40M</b>
<b>Cable length</b>	20 / 30 / 50 m
<b>Ventilation unit</b>	MV-01

Specifications are subject to change without further notice.