



## MS-40 Pyranometer

ISO 9060 Second class

Analog output

ISO 17025 certified calibration

Optional ventilator MV-01

5 years warranty

MS-40 Second Class pyranometer is based on the EKO's universal sensor platform. It can be used for agro meteorological networks and professional small scale PV sites where solar radiation is taken seriously. The MS-40A and MS-40M provide a digital output (4-20mA or Modbus 485 RTU). The MS-40/40A/40M can be used with the optional MV-01 ventilator / heater.

The MS-40 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 a 5 years warranty with a 2 years re-calibration interval recommended and it is no longer necessary to change the desiccant.

<b>Specifications</b>	<b>MS-40</b>
ISO 9060 classification	Second Class
Output	Analog (mV)
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	Approx. 10 µV/W/m <sup>2</sup>
Impedance	100 Ω
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

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

Specifications are subject to change without further notice.