



## MS-40A Pyranometer

### Technical Specifications

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ISO 9060 Second class

Industrial sensor outputs (4-20mA)

ISO 17025 certified calibration

Optional ventilator MV-01

5 years warranty

MS-40A Second Class pyranometer is based on the EKO's universal sensor platform with 4-20mA 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-40A can be used with the optional MV-01 ventilator / heater.

The MS-40A 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>MS-40A</b>
<b>ISO 9060 classification</b>	Second Class
<b>Output</b>	Digital (4-20mA)
<b>Response time 95%</b>	< 18 Sec.
<b>Zero Offset A 200W/m<sup>2</sup></b>	< 12 W/m <sup>2</sup>
<b>Zero Offset B 5K/hr</b>	+/- 5 W/m <sup>2</sup>
<b>Non-stability change/1 year</b>	+/- 1.5 %
<b>Non-linearity at 1000W/m<sup>2</sup></b>	+/- 1 %
<b>Directional response at 1000W/m<sup>2</sup></b>	< 20 W/m <sup>2</sup>
<b>Spectral selectivity 0.35-1.5µm</b>	+/- 1 %
<b>Temperature response -10°C to 40°C</b>	< 3 %
<b>Temperature response -20°C to 50°C</b>	< 4 %
<b>Tilt response at 1000W/m<sup>2</sup></b>	+/- 1 %
<b>Sensitivity</b>	-
<b>Impedance</b>	-
<b>Operating temperature range</b>	-40 - 80 °C
<b>Irradiance range</b>	0 - 2000 W/m <sup>2</sup>
<b>Wavelength range</b>	285 - 3000 nm
<b>Ingress protection IP</b>	67
<b>Cable length</b>	10 m
<b>Power supply</b>	12 - 24 VDC
<b>Power consumption</b>	0.08 - 0.5 W

Options	MS-40A
Cable length	20 / 30 / 50 m
Ventilation unit	MV-01

Specifications are subject to change without further notice.