

Pyranometer EKO MS-40

S64111



Pyranometer EKO MS-40

Order number	Availability
S64111	On request

ISO 9060 Spectrally flat Class A + IEC 17025 calibrated

Description

- ISO 9060 Spectrally flat Class C + IEC 17025 calibrated
- 5-year warranty

MS-40 Second Class pyranometer is based on the EKO's universal sensor platform with analog voltage output.

The MS-40 pyranometers have been designed for agro meteorological networks and professional small scale PV sites where solar radiation is taken seriously.

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.

Specifications

Pyranometer EKO MS-40

General Information

Order Number S64111

Specifications

Classification ISO 9060 Second Class

Output Voltage (mV)

Sensitivity 7 ... 14 $\mu\text{V}/\text{W}/\text{m}^2$

Resolution –

Wavelength Range 285 ... 3000 nm

Max. Irradiance 2000 W/m^2

Response Time (95%) < 18 s

Zero Offset (a) Thermal Radiation (200 W/m^2) < 12 W/m^2

Zero Offset (b) Temperature Change (5k/hr) $\pm 5 \text{ W}/\text{m}^2$

Non-linearity @ 1000 W/m^2 $\pm 1 \%$

Non-stability Change/1 Year $\pm 1.5 \%$

Direction Response @ 1000 W/m^2 $\pm 20 \text{ W}/\text{m}^2$

Temperature Response (-10 ... +40°C) < 3 %

Temperature Response (-20 ... +50°C) < 4 %

Tilt Response @ 1000 W/m^2 $\pm 1 \%$

Impedance @ 25°C 60 ... 100 Ω

Operating Temperature -40 ... +80 °C

Power Supply –

Power Consumption –

Cable Length 10 m

Weight 0.33 kg

Protection Class IP67

Warranty 5 years

Manufacturer

Pyranometer EKO MS-40

EKO Instruments

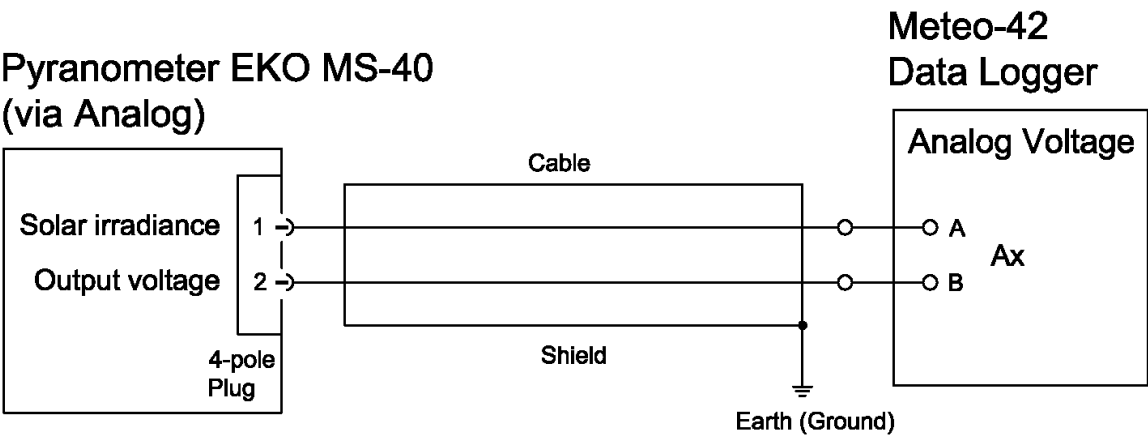
Accessory

MV-01 ventilator / heater (Order-No. S64060)

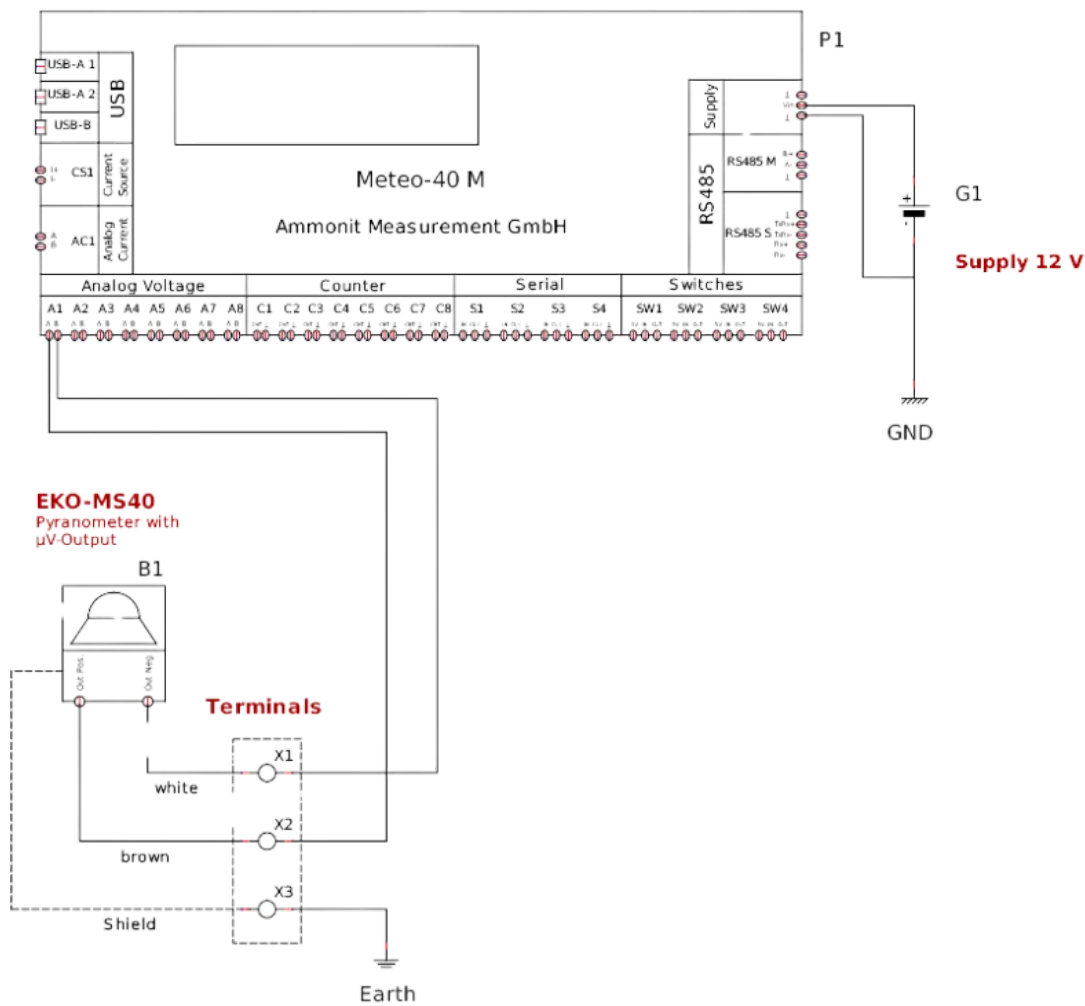
Delivery includes IEC 17025 calibration certificate.

Sensor connection diagram

Sensor connection diagram to Ammonit Meteo-42 data logger



Sensor connection diagram to Ammonit Meteo-40 data logger



Sensor	Wire Colour (EKO)	Meteo-40 Analog Voltage
Solar irradiance output voltage	Brown (+)	Ax
	White (-)	Bx
	Shield	Earth