

Info-Electronics Systems

Weather & water are our business

IES is proud to bring to Canada the latest technologies in Remote Sensing, Analysis & Weather Forecasting through the representation of state-of-the-art meteorological instrumentation companies.

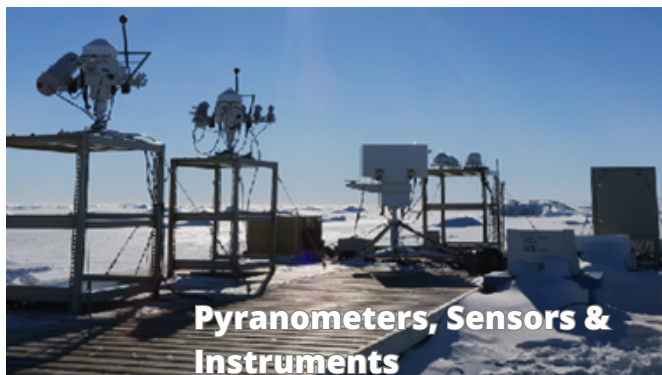
Not only do we represent these firms, but we act as a prime contractor, customer liaison and provide value-added services, including project management, software development, systems integration, installation, training, testing, support and post-maintenance support as well.



Beyond Accuracy

Made in Japan for over 90 years, EKO solar energy sensors and environmental instruments are built on a legacy of innovation, an uncompromising commitment to quality, and industry-leading accuracy

With a range of products and services to suit every project or application requirement, get in touch with us to find out how EKO Instruments can help you.



PYRANOMETERS

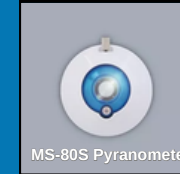
MS-80SH - Pyranometer

Applications: PV Monitoring, Meteorology, Agriculture, Weather Testing, PV Research, Climatology, Solar Assessment, Material Analysis



Wavelength Range (nm): 285 to 3000
Maximum Operational Irradiance (W/m²): 4000
Digital Output Irradiance (W/m²): -200 to 2000
Signal Output: Modbus 485 RTU / SDI-12
Sensor Diagnostic: Relative Humidity ± 2% Temp. ± 0.1% / Tilt Angle ± 1°
Dome Heating Control: Toggle on/off via Hibi software
Operating temperature: -40 to 80°C
Supply voltage: 8 to 30 VDC
EMC / Surge Protection Standard: IEC61326-1 (Industrial Electromagnetic Environment test level) / IEC61000-4-5 (Level 2, Test Criterion B)
Power Consumption: < 1.4 W
Ingress Protection: IP 67
Calibration traceability / uncertainty: ISO 17025 / WRR / < 0.7% (k = 1.96)
Standard Cable Length: 10m (Optional lengths 20m, 30m, 50m)

Most accurate, reliable and robust family of pyranometers in the world.



MS-80S includes a state-of-the-art thermopile sensor, a new internal diagnostics system, and 4-channel smart interface.



Scientific research, industrial applications, photovoltaic system performance monitoring and large weather monitoring sensor



Designed for agricultural research, meteorological applications and small to medium scale solar plants



The MS-60 is an ISO 9060:2018 Class B analog output pyranometer compatible with the optional MV-01 ventilator & heater



Class-leading solution for system integrators, agrometeorological networks, and professional small-scale PV sites.



Most cost-effective Solar irradiance sensor and is designed for agrometeorological networks and professional small scale PV sites.



Flexible solution for a range of non-standard applications and can even be drone-mounted for measuring the vertical albedo irradiance profile.

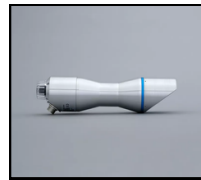
Frequently paired together



STR-21G
Sun Tracker



MS-80SH
Pyranometer



MS-57
Pyrheliometer



STR-21-S1

The STR-21G-S1 is designed for high-precision solar radiation measurement and provides industry-leading accuracy, reliability and value for solar energy research, monitoring, and meteorological applications. Easy, fully automated setup procedure and low power consumption, the STR-21G-S1 delivers smooth, consistent, and precise tracking.

Arms	1
Pointing accuracy Solar elevation: 0 to 87°	<0.01°
Angle resolution	0.009°
Rotation angle Zenith	-15 - 95°
Rotation angle Azimuth	0 - 360°
Torque	12 Nm
Payload side arms	7 kg
Sun sensor FOV	30°
Ingress protection IP	65
Operating temperature range	-40 - 50°C
Communication	RS-422 / 232C
Power consumption	<10 W

Data Viewing Options



Hibi for s-series pyranometers

Hibi is a free software from the EKO website. Users can visualize detection signals, change settings, set communication parameters, check the status of your pyranometer, troubleshoot any issues



What can Hibi do;

- **Change your sensor's signal converter settings:** Manage the communication protocol settings.
- **Realtime display of measurement values and sensor conditions:** Get instant, easy to read measurement values and live information on the condition of our sensor (temp, humidity, title.)
- **Record measurement data:** Record and export data to .csv
- **Toggle dome heating function:** Switch the heating function on or off

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Hibi Dashboard

Current sensor output value is displayed in realtime.

a Irradiance
(instantaneous Value)

b Internal Temperature

c Internal Humidity

d Tilt Angle

e Irradiance Graph

f Data Logging Setting

CONTACT US

For technical enquiries or custom quotes on any of EKO' products you can reach your EKO authorized value-added resellers at;

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