



The Professional Silicon Pyranometer provides a practical

solution for routine measurements of solar radiation. It is specially designed for use in energy monitoring, agricultural evapotranspiration determinations, air pollution monitoring, general meteorology, and many other purposes.

The MT-SL0002 measures global solar radiation under all weather conditions. Its intricate construction allows it to measure solar energy from the entire hemisphere. This is the energy flux that is available for use in solar energy applications, for growth of plants, for air to use in thermal convection, and for water evaporation. The MT-SL0002 is ideal for measuring this energy flux.

The sensor is based on a photo detector that gives a voltage output proportional to the incoming radiation. Because of the unique diffuser design, its sensitivity is proportional to the cosine of the angle of incidence of the incoming radiation, allowing for accurate and consistent measurements under varying sky and placement positions.

The easy-to-use MT-SL0002 connects directly to a data logger, voltmeter, or recorder to get a voltage output proportional to W/m^2 . Each sensor comes with a calibration certificate.

The pyranometer compares favorably to ISO 9060-specified First Class Thermopile Pyranometers under clear and unobstructed natural daylight conditions, and fully complies with CE Directives.

Technical Specifications

Sensitivity:	100 $\mu V/Wm^2$
Spectral range:	400 – 1100 nm
Temperature range:	-30°C to 70°C
Response time:	Less than 1 second
Range:	2000 Wm^2 0.2 VDC full scale
Temp. dependence:	+15% / °C
Cosine error:	±5% up to 80°

Ordering Options

- Silicon Pyranometer 5m cable
- Silicon Pyranometer 15m cable
- Leveling fixture with bubble indicator
- Albedometer 5m cable
- Albedometer fixture 15m cable
- Mounting plate for Albedometer

