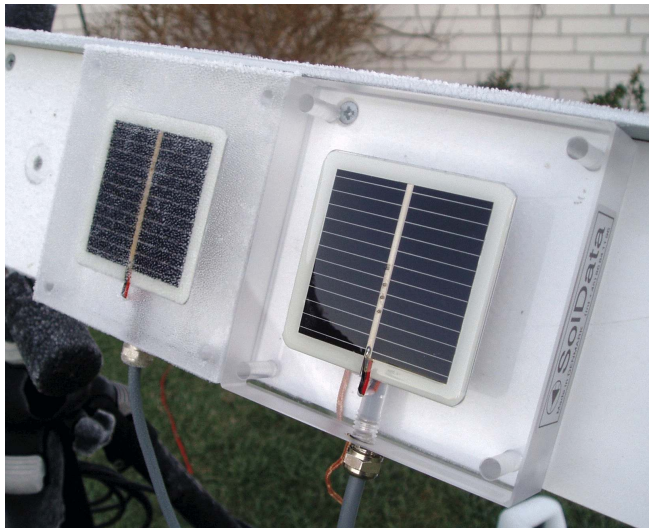


80SPT Heated Pyranometer

SolData Instruments
att: Frank Bason
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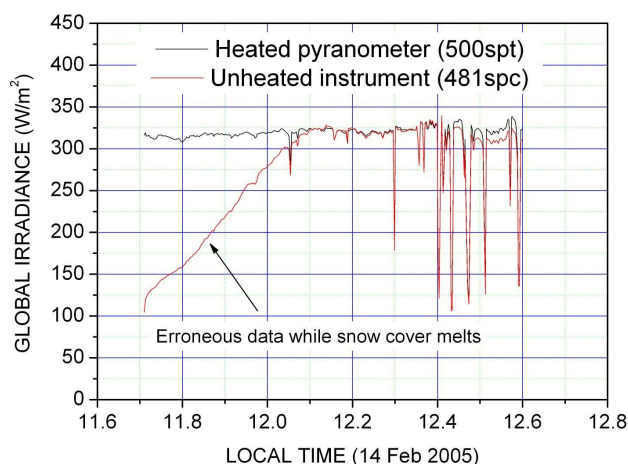
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The 80SPT is shown above at the right in the morning after a cold, damp night. The temperature was set to 30°C, and the cell and housing was completely free of ice and frost. The instrument at the left was unheated.



Rime ice and other forms of condensation on unheated instruments disturb measurements of global irradiance, e.g. by the Kipp-Zonen CM21 instrument shown above.



Without heating erroneous data will result on days with frost or snow covering the pyranometer. These are actual data recorded for two instruments on a sunny day around noon after a snowstorm in Silkeborg, Denmark. The constant temperature ensured by the heater improves accuracy and helps dry off the instrument quickly after exposure to precipitation. The high-efficiency MINCO heater requires a 12 V max. 1.5 amp supply.

SPECIFICATIONS

| | |
|------------------|-----------------------------|
| Instrument type: | photovoltaic |
| Responsivity: | 160 mV/(kW/m ²) |
| Size: | 100x100x25 mm plexiglas |
| Mass: | 450 grams |
| Compensation: | thermistor network |
| Power: | 12V DC, 1.5 A provided |

Accuracy: The daily global radiation agrees within +/-3% of Kipp-Zonen secondary standard. Each instrument is individually calibrated and supplied with a calibration certificate.

Thermal controller: MINCO foil heater with Heaterstat controller type CT-198. The set-point is preset to 30° C but is user-adjustable. Variable pulse width heating ensures high efficiency heating control. The 12V DC (20 watt) power module supplied can be connected to a 220 volt AC power outlet. All required components are provided.

PRICE: 80SPT including 6 meter 4 lead cable and power module:

495 euros ex. VAT