




*Delta-T Devices Ltd*

## SPN1 Sunshine Pyranometer

# Calibration Certificate

This is to certify that the Sunshine Pyranometer type SPN1 identified below has been calibrated in accordance with Delta-T Devices Ltd standard production procedures and conforms to the specifications as detailed.

Serial Number	SPN1 – A2046
Date	24/05/19
Authorised Signature	

We recommend that this instrument is recalibrated every 2 years.

### Traceability

The SPN1 is calibrated under a uniform light source which simulates the solar spectrum, against a transfer standard SPN1. The transfer standard is calibrated outdoors against a Kipp & Zonen CM21 secondary standard pyranometer (calibration traceable to the World Radiometric Reference), with solar tracker and shading disk for diffuse measurement.

### Accuracy, Total (Global) and Diffuse radiation

When correctly calibrated, the expected accuracy is given in the table below. The figures give 95% confidence limits, i.e. 95% of individual readings will be within the stated limits under normal climatic conditions.

Overall accuracy:	±5% daily integrals ±5% ±10 W.m <sup>-2</sup> hourly averages ±8% ±10 W.m <sup>-2</sup> individual readings
Range	0 to >2000 W.m <sup>-2</sup>
Analogue output sensitivity	1mV = 1 W.m <sup>-2</sup>



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