


5772-11

Calibration Certificate



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Issued by: **ELE International Limited**

Date of issue: Valid from date of sale

Serial number: 1807-2-1011

Approved Signatory: [Signature]

Sensor type:	Solarimeter
Catalogue number:	DRS-5
Date of verification:	<u>19.5.00</u>
Output:	<u>12.71</u> mV kW ⁻¹ m ⁻²
Source impedance:	18 Ω
Accuracy:	± 5%
Spectral range:	0.35 to 1.10 μm

Calibration method:

The sensor is mounted in a calibration fixture and exposed to a regulated diffuse light source. The output of the sensor is compared with the output of a Kipp and Zoner CME reference cell.

The intensity of the light source is regulated to approximately 500 Wm⁻². The actual intensity is determined from the reference cell during each calibration session.

NOTE : The DRS-5 is almost identical to the DRP-5 Photosynthetically Active Radiation (PAR), sensor. Take care not to confuse the two. The PAR has a blue filter which can be seen through the diffuser and its internal shunt is 100 Ω.

Maintenance:

As frequently as possible, and at least once per month, Clean the white polycarbonate diffuser with a mild detergent. Ensure that the drainage holes are clear of debris and that the sensor is mounted horizontally.

If the instrument is damaged or the data is observed to be incorrect, return the complete instrument to the service department for repair and calibration.

NOTE : Do not apply any voltage or current source to this sensor, to do so could damage the silicon photo-voltaic cell.