



Technical Help Light

LIGHT SENSOR CALIBRATION

Skye Instruments' light and radiation sensors are individually calibrated, traceable to UK National Standards via the National Physical Laboratory (NPL)*.

Our calibration facilities include a dark room with optical bench, NPL traceable calibrated single and double scanning monochromators, NPL calibrated light sources and UKAS (UK Accreditation Service) calibrated multimeters. Fully traceable calibrations can be made between 280 and 2400 nm.

A sensor's exact wavelength response is checked using the scanning monochromator, and its exact output measured against the calibrated light source. Both measurements are taken into account when calculating the sensor's individual calibration data.

This ensures the sensor calibration is valid for measurements under any light source, e.g. Different lamp types or natural solar radiation

Each sensor is supplied with a Calibration Certificate, fully traceable to UK National Standards (or WMO in the case of the Pyranometer).

All Skye light sensors are recommended to be recalibrated every 2 years to ensure maximum accuracy of measurements. The sensor can be returned to Skye where it will undergo a full calibration as described above. A new Calibration Certificate is issued showing the current calibration plus variation, if any, from the previous calibration.

* excludes the silicon cell Pyranometer sensor, which is calibrated against a WMO Secondary Standard thermopile Pyranometer, traceable to the World Meteorological Office.

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