

## CAMPBELL STOKES SUNSHINE RECORDER

Casella's Campbell Stokes Sunshine Recorder is manufactured to a design based on British Meteorological Office (BMO) specifications. The sphere is made from well-annealed optical glass and the sunshine hours are recorded onto a card, which is inserted into the base of the unit. Each card is marked with hourly intervals and an optional transparent plastic template is also available to help measure the curved trace more accurately.

The instrument is fully adjustable for operation at different geographical latitudes and levelling screws on the base ease installation. Two versions of the sunshine recorder are available, depending upon latitude, please see 'Ordering Information' for more details.

### Global Butterfly Conservation

One of Britain's leading manufacturers of weather monitoring equipment has donated a critical accessory from one of its products to enable a Dorset woman to continue vital work in the conservation of butterflies.

Judy Westgate had spent five years recording sunlight hours on a piece of specialist

equipment and supplying relevant data to the Butterfly Conservation Society of Great Britain, when a few weeks ago the costly glass globe which forms an integral part of the measuring equipment was stolen.

"I have been a voluntary observer for the meteorological office for 13 years, measuring rainfall and temperature statistics at 8.00 am every morning and passing them to the office for inclusion in nationwide analysis" says Mrs Westgate, a retired market gardener from Fontmell Magna, near Blandford Forum.

"Butterfly Conservation also used this information, but they additionally needed records of sunlight hours to complete their investigations."

"Unfortunately the met office did not supply the appropriate equipment so my family clubbed together and brought it for me. Prices have risen since then and its replacement was going to be costly. However, when I informed Butterfly Conservation of the problem they contacted Casella CEL, who made the original equipment, and very kindly gave me a replacement."

Paul Rubens, Managing Director of Casella CEL, comments: "We naturally receive



many requests to assist in charitable works and we have to turn down a large proportion. In this case we believed that if Mrs Westgate was prepared to dedicate herself in such a manner to the conservation of butterflies, her good efforts should not be thwarted by mean callous thieves who stole something that could have been of little or no use to them."

"We were therefore delighted that we were able to supply an accessory to a piece of equipment originally purchased some years ago, but still in production within our company."

### Specification

Specification	SUNSHINE RECORDER
Adjustment for latitude	0 to 65° N or S after selecting correct model
Sphere	101.6mm dia (±1.3mm)
Focal length for Sodium D light	74.9mm ±0.25mm
Dimensions	240 x 187 x 165mm
Weight	4.3kg

### Ordering information

Tropical for latitude 0 to 45° N or S (cards not included)	102271D
Temperate for latitude 45 to 65° N or S (cards not included)	102270D

### Accessories and spares

One years supply of cards (BMO pattern) for use in latitudes up to 65° N or S	M107901
200 summer cards (No 6730) long curved	
200 winter cards (No 6731) short curved	
100 equinoctial cards (No 6732) straight	
Transparent template for measuring length of trace	M114041

## SOLARIMETER

The Casella CEL Solarimeter has been designed to measure the intensity of total global solar radiation received at the earth's surface. Total radiation represents both direct and diffused sunlight received from the whole hemisphere.

The solarimeter is a passive device, requiring no power supply and provides a voltage output which may be read by a

datalogger or similar reading device and then converted into watts per square metre (W/m<sup>2</sup>). The sensor itself is based upon a silicon photo-detector that is housed within a weatherproof, anodised aluminium body and is therefore suited to reliable, long-term operation in outdoor conditions.

### Applicable Standards

ISO 9901 Solar energy field pyranometers recommended practice for use



### Ordering Information

Ordering Information	SOLARIMETER
AWS Solarimeter	187010B

### Contact Details

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