

SPECIFICATIONS

Radiation Ranges:

UV-B (280 - 315 nm)
UV-A (315 - 400 nm)
PAR (400 - 700 nm)

Resolution:

< 0.1 W/m² (PAR)
< 0.01 W/m² (UV-A)
< 0.0005 W/m² (UV-B)

Power:

115/230 VAC

Computer Interface:

Serial port

Temperature range:

-40 to 70°C

Case:

Rugged, fully weatherproof instrument case

Data Recording:

WinDose for online measurements and graphical and numerical display;
Automatic recording in ASCII files

Data Logging:

Connected computer

Cables:

15 m power and data cables

Terrestrial ELDONET dosimeter

The Terrestrial microprocessor ELDONET instrument is a dosimeter which measures solar or artificial radiation in three biologically important spectral bands: UV-B, UV-A and PAR.



Features:

- The opening is protected by a UV-transmitting acrylic window.
- Includes a 10 cm integrating sphere, three custom-made filters and sensors for UV-B, UV-A and PAR plus external and internal temperature sensors.
- The erythemal UV and the UV index are calculated from the three radiation channels.
- Internal temperature control and shutter for dark measurement.
- External temperature measurement.
- Internal 10 MHz microprocessor for low level logic (shutter control, data acquisition, averaging, internal temperature control).
- Three preamplifiers, offset amplifier, switching amplifiers (1 x, 10 x, 100 x) and heavy duty external power supply plus A/D converter and RS 232 interface in a weatherproof housing with additional reflective coating for heat removal on all exposed surfaces with 2" quartz dome and 15 m power and data cables.
- Weatherproof housing with additional reflective coating for heat removal on all exposed surfaces with 2" quartz dome.
- Calibration for cosine response, absolute irradiances in all three light channels and temperature.
- Safety sensors for excess temperature and humidity in the instrument.
- Level gauge for exact horizontal alignment.
- Including WinDose 2000 software (2000 or XP) to measure and display radiation in the three radiation channels as well as the two temperature channels.
- Evaluation program which calculates the hourly and daily doses for any given period.

Applications:

- The versatile, low cost three-channel dosimeter makes it an ideal instrument for short-term and long-term measurement of solar and artificial radiation with high precision

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