

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:

12 VDC power; backup power supply optional

Computer Interface:

Serial port

Temperature range:

-40 to 70°C

Case:

Rugged, fully weatherproof instrument case

Data Recording:

The internal data logger can store up to 3 months of data;
WinDose for online measurements and graphical and numerical display;
Automatic recording in ASCII files

Display:

Internal 2-line LCD display under the top transparent lid

Data Storage:

Built-in 256 MB flash memory

OPTIONAL

External solar panel with mounting set

Terrestrial Autonomous ELDONET Dosimeter

The Terrestrial autonomous microprocessor ELDONET instrument is a dosimeter which measures solar or artificial radiation in three biologically important spectral bands: UV-B, UV-A and PAR. The internal data logger can store up to 3 months of data.



Features:

- With additional built-in 256 MB flash memory and internal clock.
- 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).
- With switching amplifiers (1 x, 10 x, 100 x, 1000 x), internal solar battery and power controller.
- 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 (Windows 2000 or XP compatible) 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.

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