



UV-flexible Wire Data Sampler I-5

- + 2 channel
- + UV energy
- + UV dose
- + flexible wire data acquisition
- + sensor 1 mm only
- + computer programmable
- + parameter selection
- + auto scale function
- + free selectable Integral
- + high storage capacity
- + graphic charts on computer via ComPort
- + Microsoft Software
- + auto off



The UV-flexible Data Sampler I-5 is a portable, Pocket-PC based UV-Data logger for UV Curing systems, UV Profile Analysing and 3D-UV Data Acquisition at hard accessible areas.

The following version is available:

23.1.1 UV-T Wireless Data Sampler UV 230 – 410 nm

The UV-flexible Data Sampler profiling ultraviolet + temperature radiometer system has been specifically designed to measure UV-radiation on high-end UV-curing machines. Via ComPort stored data can be downloaded to a computer for further editing by Microsoft Evaluation Software. The measurement, integrating, and recording of data from the only 1 mm thick sensor takes place at user-defined intervals.

The UV-flexible Data Sampler I-5 is equipped with a UV sensor on a flexible cord for measuring in hard accessible areas. The UV-sensor contains a cosine corrected UV filter with a spectral range of 250 to 410 nm. Precise temperature measuring is made possible by a fast response temperature sensor.

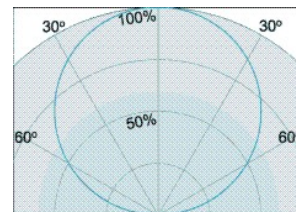


Fig. 12.1 Relative spatial response of an ideal cosine diffuser.

Special features are a ComPort and Microsoft software for the download of data to a computer.

The measured values are displayed on graphs as mW/cm² and mJ/cm². The monitor displayed graphs shows the complete profile and offers zooming and auto scale functions. Peaks and Integrals are free selectable on screen and will be displayed as digital numbers

Subject to change without prior notice



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The powerful Windows CE evaluation software is included and enables the user to synchronise the UV-T Wireless Data Sampler with a PC via RS232

Technical Data:

Spectral range: UV 250 – 410 nm (Standard) or other

Measuring range: 0 to 5,000 mW/cm²

Length of Sensor cable: 5 m (16 ft.)

Height of Sensor: 1 mm (1/25 inch)

Dose range: 0 to 100,000 mJ/cm²

Dynamic range: 0 to 1,000 mW/cm²

Sample rate: 0.1 sec

Power source: 8 x 1.5 V rechargeable Battery

Power consumption: 20 µA

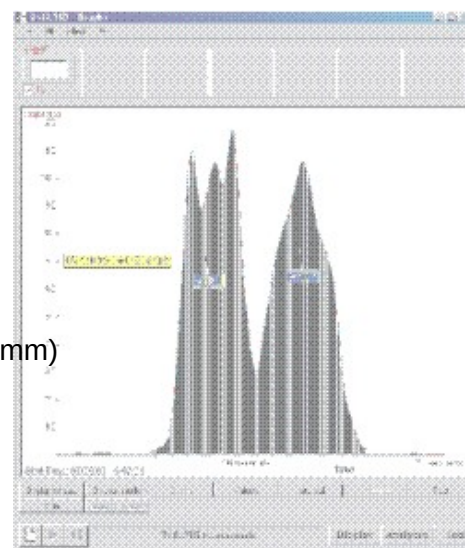
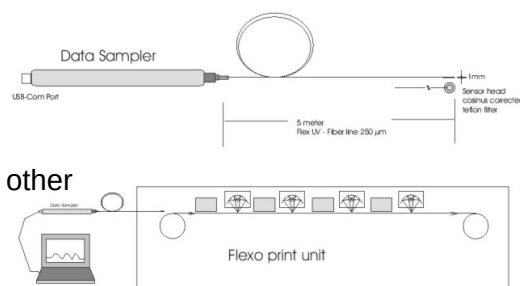
Battery service life: 2,000 hrs

Dimensions: approx. 9" x 3.5" x 1" (225 x 90 x 25 mm)

Weight: approx. 17.5 ounce (450 g)

Temperature range: 0 to 113° F / 0 to 45° Centigrade

Base Accuracy: ± 5 %



While on the conveyor belt, the sensor of the UV-Flexible Wire Data Sampler can withstand max. 110° Centigrade for up to 10 seconds. The temperature of the housing should not exceed 45° Centigrade.

Calibration:

In order to keep its full function and precision it is recommended to have re-calibration done once per year. Re-calibration will also be necessary after change of battery. PTB traceable calibration

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