

UV-4C-T Data Sampler

- + 5 channel
- + individual UV-A, UV-B, UV-C and UV-V measuring
- + UV intensity mW/cm²
- + UV dose mJ/cm²
- + temperature measuring °C/°F
- + wireless data acquisition
- + built-in sensors
- + 16 digits LCD display
- + parameter selection
- + auto scale function
- + free selectable Integral
- + high storage capacity
- + graphic charts on computer via ComPort
- + Microsoft Software
- + auto off



The UV-4C-T Data Sampler is a portable UV-Data logger for UV Curing systems, UV + Temperature Profile Analysing and 3D-UV Data Acquisition.

The following version is available:

11.8. UV-4C-T Wireless Data Sampler	UV-A 315 – 410 nm
	UV-B 280 – 315 nm
	UV-C 230 – 280 nm
	UV-V 395 – 445 nm
	Temp. 0 to 230° F / 0 to 110° C

The UV-4C-T Data Sampler profiling ultraviolet + temperature radiometer system has been specifically designed to measure UV-radiation on high-end UV-curing printing market. 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 all sensor channels takes place at user-defined intervals.

The UV-4C-T Data Sampler is equipped with four UV sensors for the individual measuring of UV-A, UV-B, UV-C and UV-V. The UV-sensors contain 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.

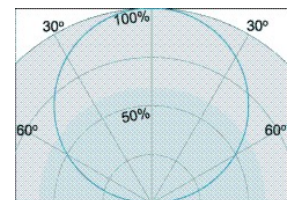


Fig. 12.1 Relative spectral response of an ideal cosine diffuser.

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

THE WIDE RANGE OF UV - IR TECHNOLOGY

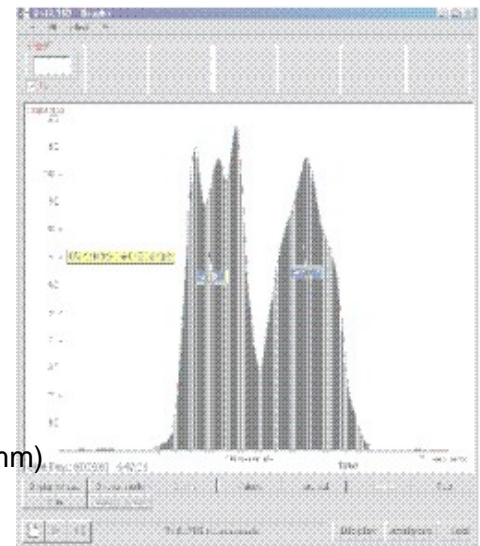
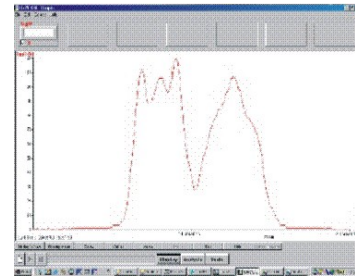


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The powerful Datalog 38 evaluation software is included and enables the user to synchronise the UV-4C-T Wireless Data Sampler with a PC via RS232/USB ComPort.

Technical Data:

Spectral range:	UV 250 – 410 nm UV-A 315 – 410 nm UV-B 280 – 315 nm UV-C 230 – 280 nm UV-V 395 – 445 nm
Measuring range:	0 to 5,000 mW/cm ²
Measuring range:	0 to 230° F / 0 to 110° C
Dose range:	0 to 100,000 mJ/cm ²
Dynamic range:	0 to 1,000 mW/cm ²
Display:	LCD, 2x16 digits
Sample rate:	0.01 sec to 1 h
Recording time:	12 min to 300 days
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. 35 ounce (900 g)
Temperature range:	0 to 113° F / 0 to 45° C
Heat protection:	Heat shield on back plate
Base Accuracy:	± 5 %



While on the conveyer belt, the UV-4C-T Wireless Data Sampler can withstand max. 110° C for up to 10 seconds. The temperature of the housing should not exceed 45° Celsius.

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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