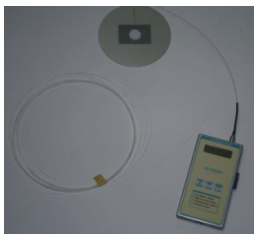
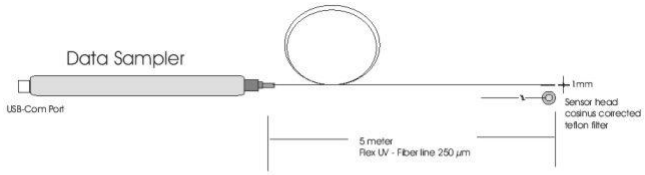
UV Datalog flexible wire 2-5 SD



+ UV intensity mW/cm²
+ Full UV dose mJ/cm²
+ pass-through data acquisition
+ extra thin sensor head 2 mm (/.10/128”)
+ flexible light guide 5 m (200”)
+ Permanent or triggered recording*
+ SD Memory Card
+ graphical and numerical display on a PC
+ re-chargeable accu-pack with charging unit
+ real-time clock

schematic view



The ***UV Datalog flexible wire 2-5 SD*** is a self-contained, high quality UV data logging unit for UV Curing systems, UV Profile Analysing and 3D-UV Data Acquisition. It has been specifically designed to measure UV-radiation on high-end UV-IR curing machines. Due to its flat measuring head on a 5 meter, extra thin optical light guide it is particularly suitable for flexo print installations.

In the standard version it is equipped with one UV sensor for the measuring of

UV 230 – 410 nm

With this basic configuration most of the measuring requirements of UV curing applications can be covered.
Due to its UV sensor and the integrated microprocessor the ***UV Datalog flexible wire 2-5 SD*** can measure, record and display the peak of the UV-intensity (mW/cm^2) of total UV-intensity.
Additionally, this instrument is calculating the UV-dosage (mJ/cm^2) of the UV energy supplied during the time of exposure of one measuring cycle. The UV-dosage is calculated as the total Integral of the UV-dosage.
This allows to determine not only the total energy, but also how that energy is delivered.

*The ***UV Datalog flexible wire 2-5 SD*** features a selectable „triggered mode“, i.e. the recording of the measuring starts first if the incident UV-intensity exceeds 2 mW/cm².
The extra flat sensor head is fixed to a 5 meter long, extremely thin optical light guide connected to the hand unit.
After completion of the measuring cycle the measuring results can be viewed on the built in 2 x 16 digit LCD display.
A special AUTO-OFF feature that turns off the unit automatically after one minute serves as energy saving and extension of the battery service life.

This instrument is additionally equipped with a Card Slot for the use of SD-Memory Cards. All measuring data of a measuring cycle are stored to the SD-Memory card with an identifying file name. The number of storable measuring files depends on the capacity of SD-Memory Card. Data can be loaded to a PC for further editing. The special evaluation software allows to show, edit and store a history of the measuring results of the entire measuring cycle as graphic charts (mW/cm^2) and (mJ cm^2)

The ***UV Datalog flexible wire 2-5 SD*** is available in four different measuring ranges

23.5.1 UV Datalog flexible wire 2-5 SD, Type 1 Diazo 350 – 460 nm
23.5.2 UV Datalog flexible wire 2-5 SD, Type 2 UV-A 315 – 400 nm
23.5.3 UV Datalog flexible wire 2-5 SD, Type 3 UV 230 – 410 nm
23.5.6 UV Datalog flexible wire 2-5 SD, Type 6 UV-V 395 – 445 nm

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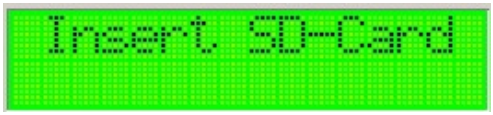
UV Datalog flexible wire 2-5 SD

Graphic Chart:

With SD Card slot. Stores data to an SD-Memory card for transmission to a computer

Technical Data:

Spectral ranges available*	DIAZO 350 – 460 nm UV-A 315 – 410 nm UV-V 395 – 445 nm UV 230 – 410 nm
Max. Power Input	0 to 5,000 mW/cm^2
Measuring range:	0 to 2,000 mW/cm^2
Sampling rate:	0.01 sec (100/sec)
Recording cycle:	90 sec.
Readiness phase:	120 sec.
Display range:	0 to 36,000 mJ/cm^2
Display:	LCD, 2 x 16 digits
Display on PC:	ScanChart_BT
Power source:	3.7 V LiPO Accu Cells
Power consumption:	20 µA
Battery service life:	1,000 re-charging cycles
Dimensions:	base unit: approx. 115 x 65 x 13 mm (4.5 x 2.4 x 0.55”)
	sensor : round approx. 1.5”, 2”, 2.5” x .10/128” (40, 50, 60 x 2 mm)
Weight:	approx. 7 ounce (200 g)
Operating temperature:	32° to 113° F / 0 to 45° C
Heat protection:	Heat shield on back plate
Base Accuracy:	± 5 %



While on the conveyer belt, the UV Datalog flexible wire SD can withstand max. 230° F / 110° C for up to 10 seconds. The temperature of the housing should not exceed 113° F / 45° C.

Because of uneven radiation distribution of the UV light source and different type of construction of the measuring devices by different manufacturers, different readings may appear under the same measurement conditions.

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. Ongoing, PTB traceable calibration with certificate

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