UV-MICROLOG 6

+ UV intensity mW/cm²
+ UV dose mJ/cm²
+ temperature
+ permanent or „triggered“ measuring mode*
+ USB ComPort
+ graphic chart on PC

The UV-MICROLOG 6 is a small, only 6 mm flat, self-contained, pass-trough UV data logging unit without display. It is specially designed to measure, record and display on a computer monitor the peak UV intensity, UV dosage and temperature in the UV curing process of narrow web presses and in some applications of the flexo print.
It is equipped with one UV sensor and one temperature sensor for the individual measuring of

UV 230 – 410 nm
Temp: 0 to 230° F / 0 to 110° C.

With this full band UV measuring and an extra temperature measuring, most of the measuring requirements of UV curing in extreme narrow applications can be covered.
It measures only 4.5” x 2.5” x 0.25” (117 x 64 x 6 mm)

Due to its integrated microprocessor the UV-Microlog 6 can measure, record and on a computer monitor display the peak of the UV-intensity (mW/cm^2).
Additionally, it 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 a total Integral of UV-dosage over the full UV spectral area 230 – 410 nm.
This allows to determine not only the total energy, but also how that energy is delivered at which intensity.
An extra sensor measures temperatures from 0 to 230° F / 0 to 110° C
*This Microlog features a selectable „triggered mode“, i.e. the 30 sec recording cycle starts within a 120 second readiness phase not before the incident UV-intensity exceeds 2 mW/cm².

The two sensors are on the back of the unit which also serves as a heat shield. After completion of the measuring cycle all measuring results can be scrolled through 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.
The measuring period is 30 seconds at a sampling rate of 200/sec.

The UV-Microlog 6 is equipped with an USB ComPort for the download of data to a computer. It comes with a special data acquisition and evaluation software that enables the operator to show, edit and store the graphic as well as the numeric measuring results of the entire measuring cycle in (mW/cm^2) and (mJ/cm^2) and (°C/°F).

Item 15.3 UV-Microlog 6, Type 3, UV 230 – 410 nm

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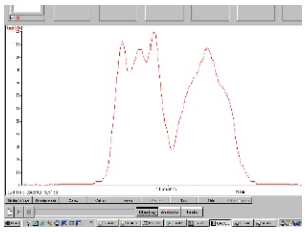
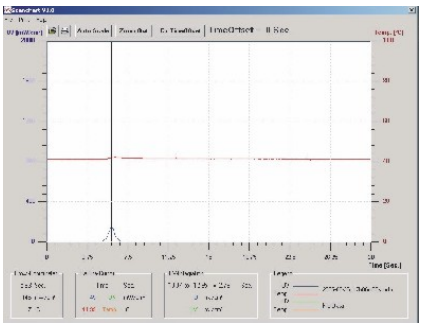
Graphic Chart:

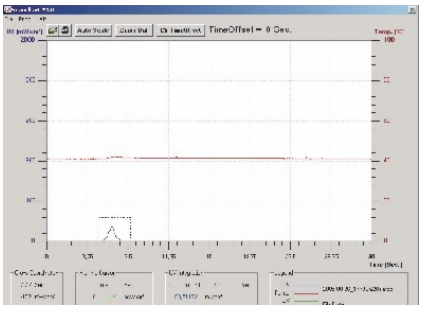
USB ComPort
for the download
of data
to a Computer

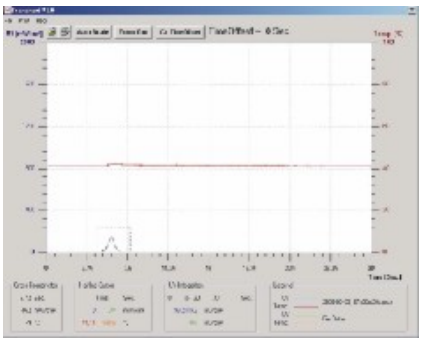


Technical Data:

Spectral range:	UV 230 – 400 nm
Temperature range:	0 to 230° F / 0 to 110° C
Max. Power Input	0 to 5,000 mW/cm^2
Measuring range:	0 to 2,000 mW/cm^2 or 2,000 to 5,000 mW/cm^2
Measuring period:	30 sec.
Readiness phase:	120 sec.
Sampling rate:	0.005 sec (200/sec)
Display:	LCD, 2 lines x 16 digits
Power source:	2 x long life 3.0 V Lithium Battery
Power consumption:	20 µA
Battery service life:	2,000 measuring cycles
Dimensions:	4.5” x 2.5” x 0.25” (117 x 64 x 6 mm)
Weight:	approx. 3 ounce (85 g)
Heat protection:	Heat shield on back plate
Operating temperature:	32° to 113° F / 0 to 45° C
Base Accuracy:	± 5 %







While on the conveyer belt, the UV-Microlog 6 can withstand max. 230° F / 110° C 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. PTB traceable calibration acc. to DIN EN ISO / IEC 17025 with certificate

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