

UV-MC Microprocessor Integrator Low intensity UV-C measurement

- + UV-intensity mW/cm^2
- + UV-dose mJ/cm^2
- + triggered or standard mode
- + LCD display
- + temperature $^{\circ}C/^{\circ}F$ (option)
- + SD Memory Card (option)
- + graphic chart on computer (option)
- + re-chargeable accu cell
- + further spectral ranges upon request
- + available up to $20W/cm^2$
- + available with high speed sampling rate $0.0007s(1400/s)$



The UV-MC Microprocessor Integrator low intensity is a self-contained, high quality UV measuring instrument. It is designed to measure, record and display peak UV intensity, UV dosage and temperature in the UV curing process.

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

UV-C 230 - 280

Due to its UV sensor and the integrated microprocessor the UV-MC can measure, record and display the peak UV-intensity of the total UV spectrum (mW/cm^2).

Additionally, this UV-Integrator 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 UV-dosage over the full UV spectral bands.

Optionally it is available with an extra sensor for measuring temperatures from 32 to $230^{\circ}F$ / 0 to $110^{\circ}C$.

*This Microprocessor Integrator features a selectable „triggered mode“, i.e. the 90 sec recording cycle starts within a 120 second readiness phase not before the incident UV-intensity exceeds $2 mW/cm^2$.

The sensor is on the back of the unit which also serves as a heat shield. After completion of the measuring cycle the measuring results can be scrolled through on the built in 2×16 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.

As an option, this microprocessor integrator is available with an SD-Memory Card Slot and an evaluation software for downloading the data to a computer 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-MC Microprocessor Integrator is available as a standard in various different measuring ranges:
(Please state upon order)

Item 2.1.1.1 UV-MC Microprocessor Integrator, Type 1 Diazo	350 – 460 nm
Item 2.1.2.1 UV-MC Microprocessor Integrator, Type 2 UV-A	315 – 400 nm
Item 2.1.3.1 UV-MC Microprocessor Integrator, Type 3 UV	230 – 410 nm
Item 2.1.4.1 UV-MC Microprocessor Integrator, Type 4 UV-B	280 – 315 nm
Item 2.1.5.1 UV-MC Microprocessor Integrator, Type 5 UV-C	230 – 280 nm
Item 2.1.6.1 UV-MC Microprocessor Integrator, Type 6 UV-V	395 – 445 nm

***also available in other spectral ranges upon request**

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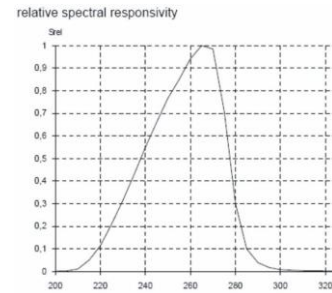
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UV-MC Microprocessor Integrator

Low intensity UV-C measurement

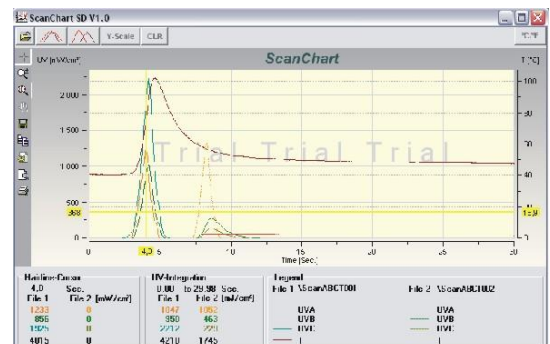
Technical Data:

Spectral range:	UVC 230 – 280 nm (Standard)
Max. Power Input*	0 to 2,000 mW/cm ² *
Display:	LCD, 2x16 digits
Display range:	0 to 36,000 mJ/cm ²
Measuring range:	0 to 2,000 mW/cm ² * (0 to 200 mW/cm ²)
Sampling rate*:	0.01 sec (100/sec)
Recording cycle:	90 sec.
Readiness phase:	120 sec.
Power source:	3.7 V LiPO Accu
Power consumption:	20 µA
Accu service life:	1,000 re-charging cycles
Dimensions:	Ø 5.5" (140 mm), height ½" (13 mm)
Weight:	approx. 17,5 ounce (500 g)
Operating temperature:	32 to 113° F / 0 to 45° C
Heat protection:	Heat shield on back plate
Base Accuracy:	± 5 %



OPTION: SD-Memory Card

Option:
Graphic Chart:
 With SD Card slot.
 Stores data to an SD-Memory card
 For transmission to a computer



While on the conveyer belt, the UV-MC Microprocessor Integrator 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.

*also available up to 20 W/cm², display resolution in relation to maximum power input

*also available with high-speed sampling rate 0.0007 (1400/sec)