

UV-4C-T Microprocessor Integrator (also available for LED measurement up to 20 W/cm²)

+ UV-A intensity mW/cm² + UV-A dose mJ/cm²

- + UV-B intensity mW/cm² + UV-B dose mJ/cm²
- + UV-C intensity mW/cm² + UV-C dose mJ/cm²
- + UV-V intensity mW/cm² + UV-V dose mJ/cm²
- + Full UV intensity mW/cm² + Full UV dose mJ/cm²
- + Permanent or triggered recording*
- + temperature measuring
- + SD Memory Card (option)
- + graphical and numerical display on a PC (option)
- + re-chargeable accu cell
- + further spectral ranges upon request
- + available up to 20W/cm²
- + available with high speed sampling rate 0.0007s (1400/s)



The UV-4C-T Microprocessor Integrator is a self-contained, high quality UV measuring instrument. It is designed to measure, record and display peak UV intensity and UV dosage in the UV curing process.

It is equipped with four different UV sensors for the individual measuring of

UV-A 315 – 410 nm UV-B 280 – 315 nm UV-C 230 – 280 nm UV-V 395 – 445 nm UV - 250 – 410 nm Temperature 32-230°F / 0-110 °C

With these four different UV-bands all of the measuring requirements of UV curing applications can be covered.

Due to its four different UV sensors and the integrated microprocessor the UV-4C-T can measure, record and display the peak of the UV-energy (mW/cm²) for each UV-band individually plus the peak of total UV energy. Additionally, this UV-Integrator is calculating the UV-dosage (mJ/cm²) of the UV energy supplied during the time of exposure of one measuring cycle. The UV-dosage is calculated for each UV-band (UV-A, UV-B, UV-C and UV-V) individually and as total Integral of UV-dosage over all three UV-bands.

This allows to determine not only the total energy, but also how that energy is delivered, i.e., what intensity and dose at what UV-band.

The four 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.

*This Microprocessor Integrator 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.

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/cm²) and (mJ cm²)

Item 80.2.8. UV-4C-T Microprocessor Integrator

*also available in other spectral range combinations upon request

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UV-DESIGN (Office) Triebstrasse 3 63636 Brachttal GERMANY Tel.: +49 (0)6053 619824 Fax: +49 (0)6053 619820

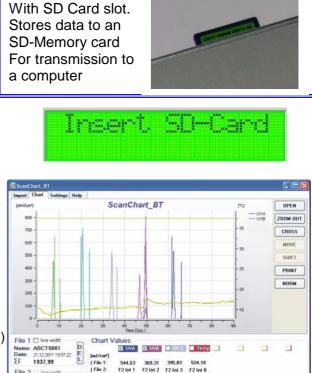


UV-4C-T Microprocessor Integrator

Technical Data:

Spectral ranges:	UV-A 315 – 410 nm UV-B 280 – 315 nm	
	UV-C 230 – 280 nm UV-V 350 – 460 nm UV 230 – 410 nm	Option: Graphic Chart: With SD Card slo
Max. Power Input*:	0 to 2,000 mW/cm ²	Stores data to an SD-Memory card For transmission a computer
Measuring range:	0 to 2,000 mW/cm ²	
Sampling rate:	0.01 sec (100/sec)	
Recording cycle:	90 sec.	Inse
Readiness phase:	120 sec.	
Display range:	0 to 36,000 mJ/cm ²	ScanChart_BT
Display:	LCD, 2 x 16 digits	[ni/ocm/] Sc.
Power source:	3.7 V LiPO Accu	700 - 600 - 500 -
Power consumption:	20 µA	400
Accu service life:	1,000 re-charging cycles	200 -
Dimensions:	arnothing 5.5" (140 mm), height ½" (13 mm) File 1 ine width Name: ABCT0001 Chart Va
Weight:	approx. 17.5 ounce (500 g)	Date: 21.12.2011 1957-22 E [mJ/cm²] Σf: 1937,99 L [file 1: [file 2: File 2 Ine width [file 2: [mW/cm²]
Operating temperature:	32° to 113° F / 0 to 45° C	Date: Date: Date: Date: Timax File 1: Date: Date: Date: Date: Timax File 2:
Heat protection:	Heat shield on back plate	
Base Accuracy:	±5%	

OPTION: SD-Memory Card



183,77 F1 Max F2 Max F2 Max

F1 Max F2 Max

295,21 F2 Max

While on the conveyer belt, the UV-4C-T 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. Recalibration will also be necessary after change of battery. PTB traceable calibration with certificate

Warranty: 2 years from the date of purchase

*also available up to 20W/cm², display resolution in relation to maximum wattage *also available with high speed sampling rate 0.0007s(1400/s)

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UV-DESIGN (Office) Triebstrasse 3 63636 Brachttal GERMANY Tel.: +49 (0)6053 619824 Fax: +49 (0)6053 619820 (Office & Workshop) UV-DESIGN Fabrikstrasse 12 63636 Brachttal GERMANY Tel.: +49 (0)6053 8095431 Fax: +49 (0)6053 8095433