uv-technik

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UV Control 3C, 3CT , 3C LED, 3CT LED, UV Control 4C, 4CT, 4C LED

## *Integrator for measuring UV intensity and dose plus temperature*

+ options UV-A, -B -C, VIS, UV-LED intensity in mW + Dose in mJ
+ Full UV intensity in mW/cm² + Dose in mJ/cm²
+ Temperature in °C / °F (UV Control 3CT, 4CT, 3CT LED)
+ Storage of all measured values on SD card
+ PC software with many user-friendly features

The UV Control Microprocessor Integrator is UV multi-channel-measuring instrument for curing applications. It is designed to measure, record and display peak UV intensity, UV dosage and temperature.

Due to its different UV sensors and the integrated microprocessor the UV Control can measure, record and display the peak of the UV intensity for each UV band individually. Additionally, this UV-Integrator is calculating the uv dosage of the uv energy supplied during the time of exposure of one measuring cycle for each uv bandwidth separately. 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 sensors are on the reverse side 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.

The readings are stored on the included SD card and can be downloaded to a PC, edited and stored, e.g. to document a diagram based on the measured values history of a UV lamp through graphics. A simple data export to spreadsheet programs is possible.

The LED versions of the UV control have switchable measuring ranges to measure either UV medium pressure lamps (up to 2000 mW/cm) or UV LEDs (up to 20 W/cm).
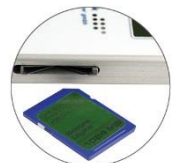
Technical data:

UV Control		
Spectral ranges	Art. No.	Spectral ranges
C B A	A006664: UV Control 3C	UV-A 315 – 410 nm
C B A Tmp	A006665: UV Control 3CT	UV-B 280 – 315 nm UV-C 230 – 280 nm
C B A VIS	A006666: UV Control 4C	Full UV 230 – 410 nm (calculated with-A, -B, -C)
C B A LED	A006667: UV Control 3C LED	UV-VIS 395 – 445 nm
C B A VIS Tmp	A006668: UV Control 4CT	UV-LED 265 – 495 nm (for UV-LEDs 320…405 nm)
C B A LED Tmp	A006669: UV Control 3CT LED	
C B A VIS LED	A006670: UV Control 4C LED	
Sensitivity curves of the uv ranges:		

Seite 1/3
UV Control - E Data sheet v5.1.2.docx, AR, 27.06.2016
Änderungen vorbehalten / All data are subject to alteration.

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Continuation technical data:

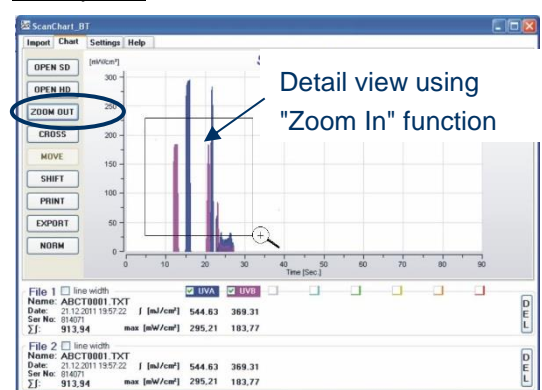| UV Control	
Measuring range	1 to 2,000 mW/cm² (UV-A, -B, -C, -VIS) 1 to 20,000 mW/cm² (= 20 W/cm²) (UV LED)
Sampling rate	10 msec
Recording cycle	90 sec
Accuracy	± 5%
Display	LCD, 2 x 16 digits
Power source	LiPo rechargeable battery, charging via USB cable Auto-Off after 1 minute
Dimensions / weight	140 x 65 x 12 mm (5.5" x 2,6" x ½") / approx. 250g (8 ounce)
Temperature range	32 to 230° F / 0 to 110° C (UV Control 3CT / 3CT LED / 4CT)
Memory card	SDHC (SD 2.0; 4…32 GB)
Operating temperature	32° to 113° F / 0 to 45° C, ambient temp. max. 230 °F / 110 °C for 10sec.
Scope of delivery	UV Control; plastic case, built in LiPo rechargeable battery, USB able (2m), PC software, SD card, manual,
Calibration	Calibration is conform to DIN EN ISO/IEC 17025 and can be traced back to PTB (Phys. Technische Bundesanstalt). Each *UV Control* Integrator is certified.
Option **UV CONTROL** A006649	**WLAN functonality for UV Control** Wireless file transfer from UV Control to smartphone or PC via Web App. This Web App reads out and shows UV Controls measured values (mW/cm² / mJ/cm²) and displays the irradiance profile on smartphone or PC. Scope of delivery: FlashAir™ SD card with installed Web App software. Note: The WLAN functionalty is device-related.

Software for PC (scope od delivery): Examples of some functions

Example 1:

Irradiance trend curve measured in one pass; here 4 UV lamps (2 x Ga-dot., 2 x Hg)

Tabular view of the measured values

Example 2:

Detail view using "Zoom In" function

Seite 2/3
UV Control - E Data sheet v5.1.2.docx, AR, 20.04.2016
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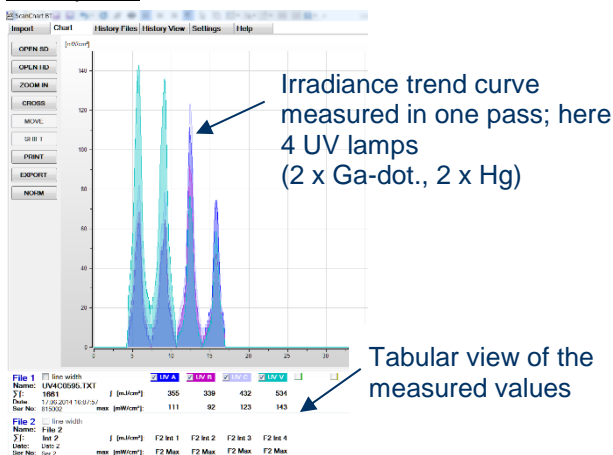
Example 3:

ScanChart BT																
Import	Chart	History Files	History View	Settings	Help											

| Date \ [mW/cm²]	L1 UV-A	L1 UV-B	L1 UV-C	L1 UV-V	L2 UV-A	L2 UV-B	L2 UV-C	L2 UV-V	L3 UV-A	L3 UV-B	L3 UV-C	L3 UV-V	L4 UV-A	L4 UV-B	L4 UV-C	L4 UV-V
17.06.2014 16:07:57 UV4C0595.TXT	62	68	82	143	62	64	78	76	111	92	123	59	74	47	45	4

'History View' - Tabular view of peak values of all UV lamps. The UV lamp (L1 to L4, i.e. 4 UV lamps) are automatically separated. The irradiance values are listed individually for each bandwidth. This facilitates the evaluation on machines where multiple UV lamps are operated simultaneously.

Option WLAN functonality for UV Control

A006649

Smartphone / Tablet / Laptop are not included
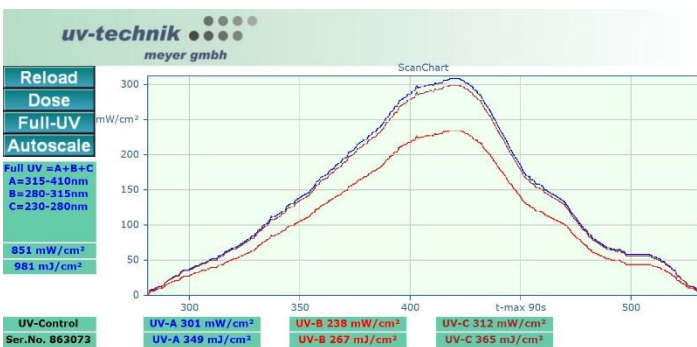
Example Web App

Measured data are transferred wireless from UV Control to smartphone / tablet / laptop or PC via Web App.
This Web App reads out and shows
UV Controls measured values (mW/cm² / mJ/cm²) and displays the irradiance profile on smartphone, tablet, laptop or PC.

Scope of delivery:
FlashAir™ SD card with installed Web App software.
Note: The WLAN functionalty is device-related.

Seite 3/3
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