

UV Control TFT

UV integrator for measuring of UV intensity, UV dose and temperature

Features

- Measurement of several UV ranges
- Measurement of UV intensity and dose
- adjustable measuring time
- Calibration acc. to DIN EN ISO / IEC 17025; traceable to PTB

Advantages

- Detailed UV examinations thanks to several UV diodes
- Ease of use
- Software with numerous functions
- Compact and robust

UV Control TFT

UV integrator

The UV Control integrator is a 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 diodes and the integrated microprocessor the device can measure, record and display the peak of the UV intensity for each UV spectral range 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 spectral range 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 spectral range.

Application

The UV Control is placed on or attached to the machine transport in such a way that the uv diodes on the reverse side of the unit can detect the UV light.

Operation

The measured values are not only shown on the colour display, but are also stored on the enclosed SD card and can be loaded onto a PC, edited and also stored there, e.g. to document a lamp history based on the measured values.

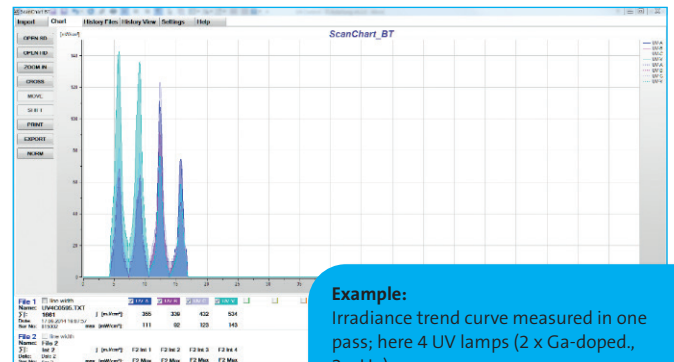
Technical data

Spectral measuring ranges						
C	B	A	Vis			UV Control 4C TFT
C	B	A	Vis		Temp	UV Control 4CT TFT
C	B	A	Vis	LED		UV Control 4C LED TFT
C	B	A	Vis	LED	Temp	UV Control 4 CT LED TFT
Spectral ranges						
UV-A	315 – 410 nm		UV-B	280 – 315 nm		
UV-C	230 – 280 nm		UV-VIS	395 – 445 nm		
UV Full	250 – 410 nm (calculated with UV-A, -B, -C)					
UV-LED	265 – 495 nm (for UV-LEDs 320...405 nm)					
Display				TFT colour display		
Measuring range				2 to 2,000 mW/cm ² UV-A, -B, -C, -Vis) 20 to 20,000 mW/cm ² (= 20 W/cm ²) (UV-LED)		
Recording cycle				30 to 400 sec. (selectable)		
Max. ambient temperature				110° C for 10 sec.		
Power source				LiPo rechargeable battery		
Dimensions / Weight				140 x 65 x 12 mm / ca. 230 g		
Protection class				IP20		

Example:

Date \ [mW/cm ²]	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 UV4CIS96.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 spectral range.



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