



UV-Stick I & II

Application:

Special Measurement device for investigation of the UV-dosage, UV-intensity and temperature.

Application:

The Beltron UV-Stick is obtainable by voting as a UV-A, -B, -C – multichannel measurement device. The new developed device has its operation area at industrial UV-Hardening utilizations and shows the total intensity of the radiation in mW/cm^2 and the dosage in mJ/cm^2 . The UV-Stick enables the operator to record the UV-intensities and UV-dosages as well as the temperatures (UV-Stick II) in tubes / bottles.

During the pass through, the sensor is mounted by a dummy, which is provided by the customer. The small size and extremely small weight allow UV-measurements under realistic conditions. For a measurement, several integrated UV-sensors will be used. Via microprocessors the UV-intensity at various UV-areas will be measured separately but at the same time. The UV-dosage will be calculated separately in the single areas via the time of radiation. The user gets not only information about the total energy, but he can record the UV-areas individually. The measurement sensors are located side by side on the cylinder shaped wall of the housing of the UV-stick.

All data will be stored on a Micro-SD-memory-card and can be uploaded on a PC, edited and saved. This enables e.g. to draw up and record a history based on the measurement values of one or several lamps by way of graphics.

The UV Stick I & II is used successfully in:

printing industry, electronic industry, plastic industry, building materials industry, textile industry, packaging industry, pharmaceutical industry, automotive industry, glass industry and engineering.

These are just a few examples from the various partner portfolio of Beltron.

Beltron GmbH

Siemensstraße 6 | D-63322 Rödermark | Phone: +49 6074 89199-0 | info@beltron.de | www.beltron.de



UV-Stick I & II

Technical Information UV-Stick I & II

A B C	UV-Stick I	UV-A 315 – 410 nm
A B C Temp.	UV-Stick II	UV-B 280 – 315 nm UV-C 230 – 280 nm
Range of measurement	1 to 2.000 mW/cm ²	
Sampling Rate	5 msec (200/sec)	
Memory cycle	90 sec.	
Triggertime	120 sec.	
Accuracy of measurement	± 5%	
Position Photodiodes	Within approx. 10 mm distance on the perpendicular axis.	
Display	/	
Energy supply	LiPO 3,7 V fix installed, Auto-Off after 1 minute The charging capacity is sufficient for approx. 100 measurements. Charging takes place via the attached USB-Cabel.	
Sizes / Weight	Diameter 25 mm, L= 60 mm / ca. 40 g	
Housing	Aluminium. The housing must be protected by the customer against intensive UV-radiation and heat, i.e. via a suitable mounting or shield.	
Range of temperature measurement	0 to 110° C / 32 to 230° F (only UV Stick II)	
Operation temperature	0 to 45° C / 32° to 113° F , Surrounding max. 110 °C / 230 ° F for 10s	
Scope of delivery	UV-Stick, Micro-SD-Card, USB-Cabel, PC-Software, Plastic transport box	
Calibration	The calibration, which is traceable to PTB, occure in accordance to DIN EN ISO / IEC 17025 and will be confirmed by the attached certificate.	

The UV Stick I & II is used successfully in:

printing industry, electronic industry, plastic industry, building materials industry, textile industry, packaging industry, pharmaceutical industry, automotive industry, glass industry and engineering.

These are just a few examples from the various partner portfolio of Beltron.

Beltron GmbH

Siemensstraße 6 | D-63322 Rödermark | Phone: +49 6074 89199-0 | info@beltron.de | www.beltron.de