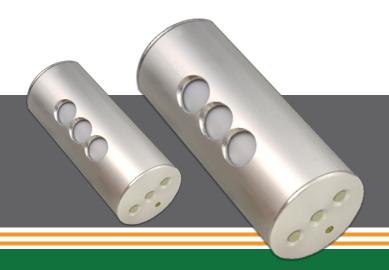




UV-Stick I & II



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/cm² and the dosage in mJ/cm². 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.





UV-Stick I & II



Technical Information UV-Stick I & II

ABC **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/cm²

Sampling Rate 5 msec (200/sec)

Memory cycle 90 sec.

Triggertime 120 sec.

Accuracy of measurement ± 5%

Position Photodiods Within approx. 10 mm distance on the perpendicular axis.

Display

LiPO 3,7 V fix installed, Auto-Off after 1 minute **Energy supply**

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

Aluminium. The housing must be protected by the customer against intensive Housing

UV-radiation and heat, i.e. via a suitable mounting or shield.

Range of 0 to 110° C / 32 to 230° F (only UV Stick II)

temperature measurement

0 to 45° C / 32° to 113° F, Surrounding max. 110 °C / 230 ° F for 10s Operation temperature

Scope of delivery UV-Stick, Micro-SD-Card, USB-Cabel, PC-Software, Plastic transport box

The calibration, which is traceable to PTB, occure in accordance to DIN EN ISO / IEC 17025 and will be confirmed by the attached certificate. Calibration

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.