

UV Micro Puck Multi

Integrator for cable-less UV measurements

Features

- cable-less sensor units
- UV dose in mJ/cm²
- available in various UV spectra
- for up to 8 different uv sensors
- 2 display ranges for low/high energy

The UV Micro Puck Multi Integrator is a high quality UV measuring system used to measure the uv dose in difficult access areas of uv curing units. With its detachable cable-less sensor unit it has numerous applications and is suitable for bottle printing machines as well as UV measuring of 3D objects.



The UV Micro Puck Integrator is available in different uv spectral ranges.

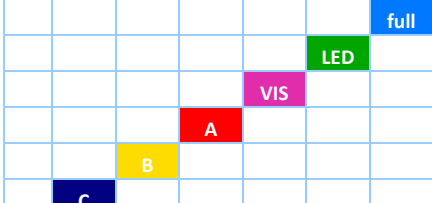
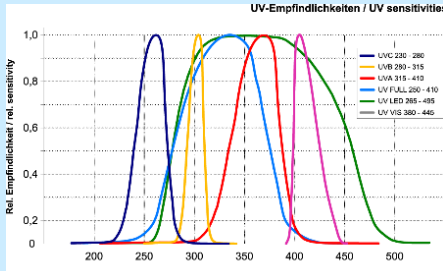
| | |
|---------|---|
| Full UV | 230 – 410 nm (Standard) |
| UV-C | 230 – 280 nm |
| UV-B | 280 – 315 nm |
| UV-A | 315 – 410 nm |
| UV-Vis | 395 – 445 nm |
| UV-LED | 265 – 495 nm (for UV LEDs 320...405 nm) |

How to measure

After the measuring cycle, the sensor unit is connected to the hand unit for the read out of the uv dose in mJ/cm². Upon read-out, the measuring value is stored automatically in the hand unit and can be called up any time as long as it is not overwritten by storing a new measuring result. After read-out, the measuring value is stored in the uv sensor unit.

Resetting the sensor unit to zero is completed by connecting to the base unit and pressing the „Reset” button of the hand unit. This is possible with the hand unit turned on or off. The sensitivity range can be changed to read low and high UV-energy values.

Consecutively, up to eight different sensor units can be used. With regular measurements it is therefore possible to anticipate the time and minimum UV dose needed to avoid uncured products. UV lamps can then be cleaned or replaced at the right time.

| Technical data UV Micro Puck Multi | | |
|--|---|-----------------------|
| Art. No. | 321 03000 0000 | |
| Spectral range | UV 230 – 410 nm (standard) or others (see below) | |
| Max. UV intensity | up to 5.000 mW/cm ² | |
| Display | LCD, 2x16 digits | |
| Display range | 0 to 2,000 mJ/cm ² 0 to 20,000 mJ/cm ² (factor 10) | |
| Intensity range | 10 to 5,000 mW/cm ² | |
| Measuring cycle | ∞ | |
| Power source | 4 x 1,5 V Micro AAA battery | |
| Power consumption | 20 µA | |
| Operating temperature | 0 to 45° C | |
| Accuracy | ± 5 % | |
| Dimensions / Weight handheld | 131 x 76 x 29 mm / approx. 190 g | |
| Delivery | batteries, plastic case, calibration certificate | |
| Cable-less UV sensors | | |
| Spectral range | Art. No. | Spectral range |
|  | 321 03010 0000 (standard version) | UV Full 230 – 410 nm |
| | 321 03011 0000 | UV-LED 265 – 495 nm * |
| | 321 03012 0000 | UV-VIS 395 – 445 nm |
| | 321 03002 0000 | UV-A 315 – 410 nm |
| | 321 03004 0000 | UV-B 280 – 315 nm |
| | 321 03006 0000 | UV-C 230 – 280 nm |
| Spectral measuring ranges |  <p>UV-Empfindlichkeiten / UV sensitivities</p> <p>* UV-LED: 265 – 495 nm: for UV-LEDs 320...405 nm</p> | |
| Housing | aluminium | |
| Dimensions / Weight | 40 mm x 15 mm x 12 mm / approx. 30 g | |
| Calibration | Acc. to DIN EN ISO / IEC 17025; can be traced back to PTB | |

While on the conveyer belt, the uv sensor unit of the UV Micro Puck Multi Integrator can withstand a maximum of 230° F / 110° C for up to 10 seconds.

Due to the 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. PTB traceable calibration acc. to DIN EN ISO / IEC 17025 with certificate.