

# THE WIDE RANGE OF UV - IR TECHNOLOGY



## UV-MICRO PUCK MULTI Integrator

- + wireless sensor units
- + UV Dose  $\text{mJ}/\text{cm}^2$
- + available in various UV-spectral areas
- + 2 display ranges for low/high energy
- + up to 100 wireless sensor units
- + sensor units in different shapes and sizes
- + re-chargeable accu with charger



The UV-MICRO PUCK Multi Integrator is a high quality UV-measuring system used to measure the UV-dose in hard accessible areas of UV-curing units. With up to eight connectable wireless sensor units it is specially practicable to be used in narrow WEB – Presses, in Label Printing machines as well as for UV-3D Measuring of 3D objects.

In its standard version the UV-Micro Puck Multi is measuring the area of:

### UV 230-410 nm

Up to 100 different wireless sensor units in various different UV-spectral areas can be connected. This fact makes the UV-Micro Puck Multi to a very versatile multi area measuring instrument as five different spectral areas can be measured in one measuring cycle.

After the measuring cycle the sensor units are connected one by one to the hand unit for the read out of the UV-dose in  $\text{mJ}/\text{cm}^2$ . The UV-sensor units are numbered and marked with the respective UV-spectral area.

As a standard the UV-sensor unit number one will be read-out first. Further sensor units follow in their sequence, according to the numbering. 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 keeps also stored in the UV-sensor unit. The sensor internal storing of the measuring value enables additive measurements.

Reset of the respective sensor unit to zero is made 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 display range can be changed to read low and high UV-energy values.

The UV-MICRO PUCK MULTI measuring system consists of:

1. the hand unit with the electronics and display
2. UV-sensor units in various shapes and UV-spectral areas with sensor opening and plug\*

### Item 4.2. UV-Micro Puck Multi

UV	230 – 410 nm (Standard)
UV-A	315 – 410 nm
UV-B	280 – 315 nm
UV-C	230 – 280 nm
UV-DIAZO	350 – 460 nm
UV-C	160 – 240 nm
UV-C	160 – 260 nm
UV-C	160 – 200 nm



\*for further details of available sensors please see separate data sheet item 4.3ff

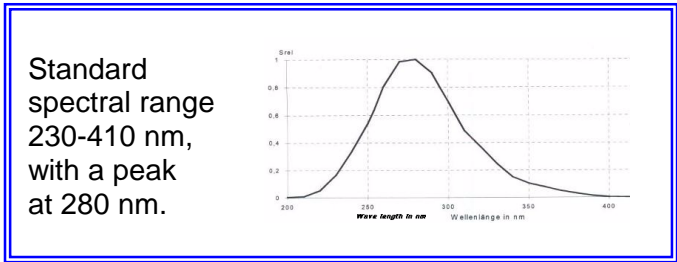
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## UV-Micro Puck Multi

### Technical data

Spectral range:	UV 230 – 410 nm (Standard) or other
Max. Power Input	0 to 5,000 mW/cm <sup>2</sup>
Display:	LCD, 2x16 digits
Display range:	0 to 2,000 mJ/cm <sup>2</sup> 0 to 20,000 mJ/cm <sup>2</sup> (x10)
Measuring range:	0 to 5,000 mW/cm <sup>2</sup>
Recording cycle:	∞
Power source:	2 x 3.7 V LiPO Accu
Power consumption:	20 µA
Accu service life:	approx. 1,000 charging cycles
Dimensions:	hand unit: 5.5" (120 mm) x 3" (75 mm) x 0.4" (10 mm) Sensor long: 1.5" (40 mm) x 5/8" (14mm) x 1/2" (12 mm) Sensor round: Ø 1.5" (40 mm) x 0.4" (10 mm) Sensor round: Ø 1.5" (40 mm) x 0.25" (6 mm) – Full UV only – Sensor round: Ø 1.5" (40 mm) x 1 3/8" (35 mm) – low UV-C -
Weight:	hand unit: approx. 6 ounce (150 g) sensor: approx. 1/2 ounce (15 g) to 2 ounce (60 g)
Operating temperature:	32 to 113° F / 0 to 45° C
Base Accuracy:	± 5 %



While on the conveyer belt, the UV-Sensor Unit of the UV-Micro Puck Multi Integrator can withstand max. 230° F / 110° C up to 10 seconds.

Because of 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. Re-calibration will also be necessary after change of battery. PTB traceable calibration acc. to DIN EN ISO / IEC 17025 with certificate

**Warranty:** 2 years from the date of purchase

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