

UV-MICRO PUCK Integrator

- + **wireless sensor unit**
- + **UV Dose mJ/cm²**
- + **available in various UV-spectral areas**
- + **2 display ranges for low/high energy**
- + **sensor unit in various shapes and sizes**
- + **re-chargeable accu-cells with charger**



The UV-MICRO PUCK Integrator is a high quality UV-measuring system used to measure the UV-dose in hard accessible areas of UV-curing units. With its detachable wireless sensor unit 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 is measuring the area of:

UV 230-410 nm

The UV-MICRO PUCK Integrator is available in various different UV-spectral ranges. This fact makes it possible to chose the UV-Micro Puck to fit the required measuring situation best. 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 keeps also stored in the UV-sensor unit. The sensor internal storing of the measuring value enables additive measurements.

Reset of the 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 measuring system consists of:

1. the hand unit with the electronics and display
2. the UV-sensor unit with sensor opening and plug*.

The UV-MICRO PUCK Integrator is available with sensors in various shapes and UV-spectral areas:

Item 4.1. UV-Micro Puck

UV	230 – 410 nm (Standard)
UV-A	315 – 410 nm
UV-B	280 – 315 nm
UV-C	230 – 280 nm
DIAZO	350 – 460 nm
UV-V	395 – 445 nm
Low UV-C	160 – 200 nm
Low UV-C	160 – 240 nm
Low UV-C	160 – 320 nm



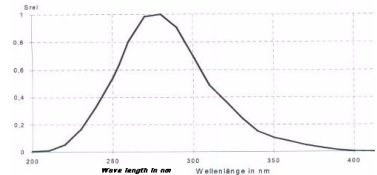
*for further details of available sensors please see separate data sheet item 4.3ff

UV-Micro Puck

Technical data

Spectral range:	UV 230 – 410 nm (Standard) or other
Max. Power Input	0 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 (x10)
Measuring range:	0 to 5,000 mW/cm ²
Recording cycle:	∞
Power source:	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 rectangular (1.5" x 0.6" x 0.5" / 45 x 15 x .2") UV 230 – 410 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 ounce (30 g)
Operating temperature:	32 to 113° F / 0 to 45° C
Base Accuracy:	± 5 %

Standard spectral range 230-410 nm, with a peak at 280 nm.



While on the conveyer belt, the UV-Sensor Unit of the UV-Micro Puck 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. Ongoing, PTB traceable calibration with certificate

Warranty: 2 years from the date of purchase