

UV-MICRO PUCK II

- + wireless sensor unit
- + UV peak intensity mW/cm^2
- + UV dose mJ/cm^2
- + peak temperature measuring (option)
- + available in various UV-spectral areas
- + 2 display ranges for low/high energy
- + sensor unit in various shapes and sizes
- + permanent or „triggered“ measuring mode*
- + SD Memory card (option)
- + graphic chart on computer (option)



The **UV-MICRO PUCK II** is a high quality UV-measuring system specially developed to measure the UV peak intensity and the UV-dose in hard accessible areas of UV-curing units. With its detachable wireless sensor unit it is particularly practicable to be used in narrow WEB – presses, in label printing machines as well as for UV-3D measuring of 3D objects.

The **UV-MICRO PUCK II** is available in various different UV-spectral ranges. This fact makes it possible to choose the UV-Micro Puck to fit the required measuring situation best. After the measuring cycle the sensor unit is connected to the base unit for the read out of the peak UV-intensity in mW/cm^2 and the UV-dose in mJ/cm^2 on the two line LCD display. Upon read-out, the measuring value is stored automatically in the base unit and can be called up any time as long as it is not overwritten by storing a new measuring result. The base unit also serves as a charging unit for the sensor.

After read-out, the measuring value keeps also stored in the UV-sensor unit until it is over-written during a new measuring cycle.

*The **UV-MICRO PUCK II** features a selectable „triggered mode“, i.e. the 30 sec recording cycle starts within a 120 second readiness phase not before the incident UV-intensity exceeds $2 mW/cm^2$.

Optionally, the **UV-MICRO PUCK II** is equipped with an SD Memory card slot and an evaluation software for downloading the data to a computer.

Reset of the sensor unit to zero is made by connecting to the base unit and pressing the „Reset“ button. The display range can be changed to read low and high UV-energy values.

The **UV-MICRO PUCK II** measuring system consists of:

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

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

Item 4.5.1. UV-Micro Puck II

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
UV-C	160 – 240 nm
UV-C	160 – 320 nm
UV-C	160 – 200 nm
Temperature	0-110°C/32-212°F

*for further details of available sensors please see separate data sheet item 4.7ff

UV-Micro Puck II

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
Sampling rate:	0.0005 sec (2000/sec)
Recording cycle:	10 min.
Readiness phase:	120 sec
Power source:	Base Unit : 110 – 240 V / 50/60 cyc. Sensors: 1 x 3.7 V LiPO Accu 60 mA
Power consumption:	18 mA
Accu service life:	approx. 1,000 charging cycles
Dimensions:	base unit: 6.5" (165 mm) x 4" (105 mm) x 1"(25 mm) Sensor long: under preparation Sensor round: Ø 2" (47 mm) x 0.5" (12.5 mm) Sensor round: Ø 2" (50 mm) x 1 3/8" (35 mm) – low UV-C -
Weight:	hand unit: approx. 22 ounce (700 g) sensor: approx. 2 ounce (60 g)

While on the conveyer belt, the UV-Sensor Unit of the UV-Micro Puck II 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