

THE WIDE RANGE OF UV - IR TECHNOLOGY



UV-Intensity Meter SMA

- + **UV-intensity mW/cm^2**
- + **compact size**
- + **portable**
- + **standard SMA socket**
- + **2 m flexible light guide**



The UV-intensity meter SMA is a high quality electro-optic UV measuring instrument. It is self-contained, battery-operated, portable, light-weight and easy to handle. It is specially designed to measure and display peak UV intensity in hard accessible curing chambers such as e.g. narrow web presses in order to evaluate system performance. The measurement head which contains the optics is attached to the upper end of the torch-like instrument. To take a measuring the flexible light guide is connected to an SMA socket which is fixed installed in the lamp housing.

The UV-intensity meter SMA is available in two different UV-bands.

In the basic version it is equipped with one UV sensor for the measuring of:

Full UV spectral area 230 – 410 nm

With the increasing employment of narrow web presses and flexo print technology, it has become necessary to establish a method of measuring system performance. Degradation of UV lamps, light guides, and reflectors can cause decreases in irradiance and create curing problems.

The UV-intensity meter SMA is the right answer and an effective method of quantifying UV output. It provides the operator with instant feedback as to the performance of his UV curing system.

A 9 V battery block ensures extremely long life in excess of 100,000 readings.

After the flexible light guide has been connected to the SMA socket at the lamp the measurement can then be viewed directly on the LCD display.

It can monitor UV intensities up to $9,990 mW/cm^2$

The UV-intensity meter SMA is available in the following measuring ranges:

(Please state upon order)

- | | |
|--|--------------------------------|
| Item 27.1.2 UV-Intensity Meter SMA, Type 2 UV-A | 315 – 410 nm |
| Item 27.1.3 UV-Intensity Meter SMA, Type 3 UV | 230 – 400 nm (Standard) |

THE WIDE RANGE OF UV - IR TECHNOLOGY

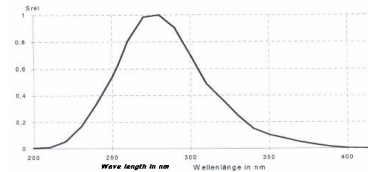


UV-Intensity Meter SMA

Technical Data:

Spectral range:	UV 230 – 410 nm (Standard)
Max. Power Input	0 to 9,990 mW/cm ²
Display:	LCD, 3 digits X 10
Display range:	0 to 9,990
Measuring range:	0 to 9,990 mW/cm ²
Power source:	9 V Block Battery
Power consumption:	20 μ A
Battery service life:	2,000 hrs (100.000 Measurements)
Dimensions:	6.25" (158 mm) x 1.6" (40 mm) x 1.3" (34 mm)
Weight:	approx. 4 ounce (100 g)
Length of light guide:	approx. 2 m
Operating temperature:	32 to 122° F / 0 to 50° C
Base Accuracy:	\pm 5 %

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



The maximum permissible temperature at the tip of the light guide is 350° C / 660° F. The temperature of the housing should not exceed 122° F / 50° C.

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 with certificate

Subject to change without prior notice © 2006-09