

## UV-Integrator TWIN PROBE

available for LED measurement up to 20 W/cm<sup>2</sup>  
(also available as low UV-C version)

- + 2 UV-sensors in one housing
- + 2 different UV-bands UV-A + UV-B\*
- + other sensor combinations available on request
- + UV intensity mW/cm<sup>2</sup>
- + UV peak intensity mW/cm<sup>2</sup>
- + 30/60 sec scan
- + UV-dose mJ/cm<sup>2</sup>
- + option: USB ComPort
- + re-chargeable accu and charger



low UV-C >240 nm

The UV-Microprocessor Integrator TWIN PROBE is a self-contained, high quality UV measuring instrument. It is designed to measure and display the actual UV intensity of a UV light source in mW/cm<sup>2</sup>. An additional function is the scan of the peak value of UV-intensity in mW/cm<sup>2</sup> and to measure the UV dose in mJ/cm<sup>2</sup> within a pre-set period of 30/60 seconds, or with a triggered scan. (UV-integration)

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

**UV-A 315 – 400 nm + UV-B 280 – 315 nm\***

Due to its two UV sensors and the integrated microprocessor the UV-Probe Twin Integrator can measure and display the peak UV-intensity of UV-A and UV-B separately and also as a total (mW/cm<sup>2</sup>). Additionally, this UV-Probe Integrator is calculating the UV-dosage (mJ/cm<sup>2</sup>) of the UV energy supplied during the time of exposure of one measuring cycle. The UV-dosage is calculated as the total Integral of UV-dosage of either UV-A or UV-B or as the total of both.

The removable, probe-type twin sensor head is connected to the base unit by a cable, various lengths are available. In the function "Direct" the actual UV-energy in mW/cm<sup>2</sup> supplied to the sensor is measured. The function "Scan" will start a 30/60 second measuring cycle of both, UV-energy and UV-dose. This measuring cycle can be stopped any time by the operator. An additional function is the triggered scan to start integration only if the UV intensity rises above 5 mW/cm<sup>2</sup>. After completion of the measuring cycle the measuring results can be scrolled through on the built in 2 x 16 digit LCD display.

A special AUTO-OFF feature that turns off the unit automatically after one minute serves as energy saving and extension of the battery service life.

As an option, this microprocessor integrator is available with an USB ComPort and an evaluation software for downloading the data to a computer to show, edit and store a history of the measuring results of the entire measuring cycle as graphic charts (mW/cm<sup>2</sup>) and (mJ/cm<sup>2</sup>)

The UV-Integrator TWIN PROBE is available in the following versions:

(Please state upon order)

Item 36.1.1. UV-Integrator TWIN PROBE  
Item 36.1.5.4. UV-Integrator TWIN PROBE

Type 1, UV-A 315 – 400 nm + UV-B 280 – 315 nm\*  
Type 54, UV-C 230 – 280 nm + UV-C 160 – 240 nm\*

Item 36.2.1. UV-Integrator TWIN PROBE ComPort  
Item 36.2.5.4. UV-Integrator TWIN PROBE ComPort

Type 1, UV-A 315 – 400 nm + UV-B 280 – 315 nm\*  
Type 54, UV-C 230 – 280 nm + UV-C 160 – 240 nm\*

\*further combinations of spectral bands available upon request

## UV-Integrator TWIN PROBE

### Technical Data:

Spectral ranges: available*	UV-A 315 – 400 nm UV-B 280 – 315 nm UV-C 230 – 280 nm UV-V 395 – 445 nm UV-C 160 – 200 nm UV-C 160 – 240 nm UV-C 160 – 320 nm
Max. Power Input*	0 to 2,000 mW/cm <sup>2</sup>
Display:	LCD, 2x16 digits
Display range:	0 to 36,000 mJ/cm <sup>2</sup>
Measuring range:	0 to 2,000 mW/cm <sup>2</sup>
Sampling rate:	0.01 sec (100/sec)
Recording cycle:	30/60 sec.
Power source:	3.7 V LiPO Accu
Power consumption:	20 µA
Accu service life:	approx. 1,000 charging cycles
Dimensions:	5.5" (120 mm) x 3" (75 mm) x 0.4"(10 mm)
Weight:	approx. 6 ounce (150 g)
Dimensions of probe:	Ø 1.5" (40 mm) x 0.4" (10 mm), low UV-C Ø 2" (50 mm) x 1.75" (45 mm)
Length of probe cable:	choice of approx. 40"/80"/120" ( 1,2 or 3 meter )
Operating temperature:	32 to 113° F / 0 to 45° Celsius
Base Accuracy:	± 5 %

While measuring, the sensor of the UV-Integrator TWIN PROBE can withstand max. 230° F / 110° C for up to 10 seconds. The temperature of the housing should not exceed 113° F / 45° 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

### Attention:

1. Please avoid shaking the UV-Integrator TWIN PROBE.
2. Do not expose to excessive heat.
3. UV-light is hazardous to your health. Avoid direct UV-light to your eyes and to your body.

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

**\*also available up to 20 W/cm<sup>2</sup>, display resolution in relation to maximum power input**

### Option Special Feature:

ComPort  
for the download  
of data  
to a Computer

