

UV-Probe Integrator Multi

(also available for LED measurement up to 20 W/cm²)

- + up to 4 UV-sensors
- + up to 4 different UV-bands
- + UV intensity mW/cm²
- + UV peak intensity mW/cm²
- + UV dose mJ/cm²
- + USB ComPort (Option)
- + graphic chart on computer (Option)
- + re-chargable accu and charger



The UV-Probe Integrator Multi is a self-contained, high quality UV measuring instrument. It is designed to measure and display UV intensity in mW/cm². An additional function is the scan of the peak value of UV-intensity in mW/cm² and to measure the UV dose in mJ/cm² within a pre-set period of 30/60 seconds.

It is able to automatically detect up to four different UV-sensors in up to four different UV-bands (UV-A, UV-B, UV-C, UV-Diazo, UV-V or full UV)

Extra sensors (up to three) should be ordered right with the initial purchase in order to calibrate sensors to the base unit. Due to its UV sensor(s) and the integrated microprocessor the UV-Probe Integrator Multi can measure and display the peak UV-energy of up to four different UV bands (mW/cm²).

Additionally, this UV-Probe Integrator Multi is calculating the UV-dosage (mJ/cm²) 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 over the UV spectral band of the respective sensor connected.

The removable, probe-type sensors are connected to the base unit by a cable of approx. 1 meter (40") length. In the function "Direct" the actual UV-intensity in mW/cm² supplied to the sensor is measured. The function "Scan" will start a 30 second measuring cycle of both, UV-intensity and UV-dose. 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.

Optionally, 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 and numeric charts (mW/cm²) and (mJ/cm²)

The UV-Probe Integrator Multi (ComPort) is available in five different measuring ranges:

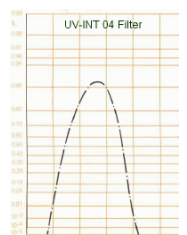
Item 33.1.1 UV-Probe Integrator Type 1 Diazo	350 – 460 nm
Item 33.1.2 UV-Probe Integrator Type 2 UV-A	315 – 400 nm
Item 33.1.2.2 UV-Probe Integrator Type 22 UV	380 – 420 nm
Item 33.1.3 UV-Probe Integrator Type 3 UV	230 – 410 nm
Item 33.1.4 UV-Probe Integrator Type 4 UV-B	280 – 315 nm
Item 33.1.5 UV-Probe Integrator Type 5 UV-C	230 – 280 nm
Item 33.1.6 UV-Probe Integrator Type 6 UV-V	395 – 445 nm
Item 33.1.7 UV-Probe Integrator Type 7 UV-VIS	400 – 550 nm

UV-ComPort Probe Integrator Multi

Item 33.4.1 UV-ComPort Probe Integrator Multi, Type 1 Diazo	350 – 460 nm
Item 33.4.2 UV-ComPort Probe Integrator Multi, Type 2 UV-A	315 – 400 nm
Item 33.4.2.2 UV-ComPort Probe Integrator Multi, Type 22 UV	380 – 420 nm
Item 33.4.3 UV-ComPort Probe Integrator Multi, Type 3 UV	250 – 410 nm
Item 33.4.4 UV-ComPort Probe Integrator Multi, Type 4 UV-B	280 – 315 nm
Item 33.4.5 UV-ComPort Probe Integrator Multi, Type 5 UV-C	230 – 280 nm
Item 33.4.6 UV-ComPort Probe Integrator Multi, Type 6 UV-V	395 – 445 nm
Item 33.4.7 UV-ComPort Probe Integrator Multi, Type 7 UV-VIS	400 – 550 nm

*further spectral ranges available upon request

In the standard version it is measuring an integral in the spectral range from 230-410 nm, with a peak at the area of 330 nm.



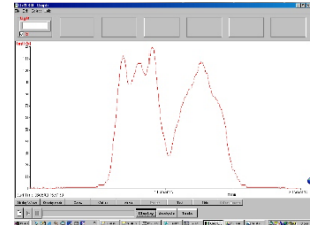
UV-Probe Integrator Multi

Extra sensors are available as follows:

Item 33.2.1 Sensor Type 1 Diazo	350 – 460 nm
Item 33.2.2 Sensor Type 2 UV-A	315 – 400 nm
Item 33.2.2.2 Sensor Type 22 UV-LED	380 – 420 nm
Item 33.2.3 Sensor Type 3 UV	230 – 410 nm
Item 33.2.4 Sensor Type 4 UV-B	280 – 315 nm
Item 33.2.5 Sensor Type 5 UV-C	230 – 280 nm
Item 33.2.6 Sensor Type 6 UV-V	395 – 445 nm
Item 33.2.7 Sensor Type 7 UV-VIS	400 – 550 nm

Option: Special Feature

ComPort
for the download
of data
to a Computer



Technical Data:

Spectral ranges:	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 60,000 mJ/cm ²
Measuring range:	0 to 2,000 mW/cm ² *
Sampling rate:	0.005 sec (200/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)
Length of probe cable:	approx. 40" (1 meter)
Operating temperature:	32 to 113° F / 0 to 45° C
Base Accuracy:	± 5 %

Option: ComPort

* Higher measuring ranges available upon request.

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

Warranty: 2 years from the date of purchase

Subject to change without prior notice © 2014-01

UV-DESIGN (Office)
Triebstrasse 3
63636 Brachtal
GERMANY
Tel.: +49 (0)6053 619824
Fax: +49 (0)6053 619820

(Office & Workshop) UV-DESIGN
Fabrikstrasse 12
63636 Brachtal
GERMANY
Tel.: +49 (0)6053 8095431
Fax: +49 (0)6053 8095433