

UV-Integrator 140



The UV-Integrator 140 is a high quality UV measuring instrument. It is used to measure UV energy of different light sources, especially on printing machines. It was specially designed with a recess in the housing for better handling. It is ideal to ensure quality control of printing and drying processes.

Big size, heavy duty pass-through Integrator with a diameter of 140 mm. It is reliable and simple to use.

The UV-Integrator 140 is available in six different measuring ranges*:
(Please state upon order)

| | |
|--|---------------------|
| Item 9.1 UV-Integrator 140, Type 1, Diazo | 350 – 460 nm |
| Item 9.2 UV-Integrator 140, Type 2, UV-A | 315 – 400 nm |
| Item 9.3 UV-Integrator 140, Type 3, UV | 250 – 410 nm |
| Item 9.4 UV-Integrator 140, Type 4, UV-B | 280 – 315 nm |
| Item 9.5 UV-Integrator 140, Type 5, UV-C | 230 – 280 nm |
| Item 9.6 UV-Integrator 140, Type 6, UV-V | 395 – 445 nm |

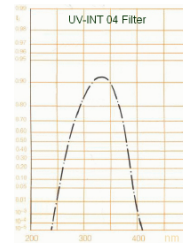
*further spectral ranges available upon request

By addition of the incidence of the light quantities during the exposure cycle, relative values are calculated. 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.

Technical Data:

| | |
|-----------------------|-----------------------------------|
| Spectral range: | UV 250 – 410 nm |
| Measuring range: | 0 to 5,000 mW/cm ² |
| Display: | 6-digit LCD |
| Display range: | 0 to 999,999 mJ/cm ² |
| Power source: | long life 3.6 V Lithium Battery |
| Power consumption: | 100 µA |
| Battery service life: | 10,000 hrs |
| Dimensions: | Ø 5.5" (140 mm) height ½" (13 mm) |
| Weight: | approx. 16 ounce (450 grs.) |
| Temperature range: | 0 to 45° Celsius |
| Heat protection: | Heat shield on back plate |
| Base Accuracy: | ± 5 % |

In the standard version it is measuring an integral in the spectral range from 250-410 nm, with a peak at the area of 330 nm.



While on the conveyer belt, the UV-Integrator 140 can withstand max. 110° C / 230° F for up to 10 seconds. The temperature of the housing should not exceed 45° C / 113° F.

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, For the German quality battery we guarantee one year

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