

## Data Sampler Model PL 2516 SD

- + up to 16 channels
- + individual UV & temperature measuring
- + temperature measuring 0 – 150°C (32 – 302°F)
- + up to 16 probe-type sensors (UV and temp)
- + UV intensity  $mW/cm^2$
- + UV dose  $mJ/cm^2$
- + pass-through data acquisition
- + online monitoring via USB
- + triggered UV data recording\*
- + data storing on SD-Memory card
- + auto scale function
- + free selectable Integral
- + Microsoft Evaluation Software Scanchart
- + re-chargeable accu cells



The Data Sampler PL2516 SD is a small, portable, pass-through, UV & temperature data sampling unit for UV & IR Curing systems, UV & IR Profile Analysing and 3D-UV & IR Data Acquisition. It has been specifically designed to measure UV-radiation and temperature on high-end UV-IR curing machines.

According to the customers' requirements, the Data Sampler PL2516 SD is available in various configurations. Any combination of up to 16 individual UV or temperature sensors can be configured.

\*This Data Sampler features a selectable „triggered mode“, i.e. the pre-set 90 sec recording cycle starts within a 120 second readiness phase not before the incident UV-intensity exceeds 2  $mW/cm^2$ .

After completion of the measuring cycle all measuring results can be scrolled through on the built in 2 x 16 digit LCD display.

All measuring data are additionally stored as individual data files on an SD-Memory card and can be downloaded to a PC for further editing by Microsoft Evaluation Software Scanchart .  
The sensors are probe-type round sensors connected with a flexible cable.

Connected to a PC via USB cable allows direct online measuring for up to 16 different sensors.

On a PC, the measuring results are displayed on graphs as  $mW/cm^2$ ,  $mJ/cm^2$  and as a temperature curve. The monitor displayed graphs show the complete profile and offers zooming and auto scale functions. Peaks and Integrals are free selectable on screen and will also be displayed as digital numbers

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.

|                 |  |
|-----------------|--|
| Item 67.1. ff., | <b>UV-Data Sampler PL2516 SD</b>                 |
| Item 67.2. ff., | <b>UV-Sensors with Cable Connection</b>          |
| Item 67.3. ff., | <b>Temperature Sensors with Cable Connection</b> |
| Item 67.4. ff., | <b>Sensor</b>                                    |
| Item 67.9.1.    | <b>Battery Charger RLG</b>                       |

## UV-Data Sampler Model PL 2516 SD

### Technical Data:

|                               |  |
|-------------------------------|--|
| Available UV spectral ranges: | UV 250 – 410 nm<br>UV-A 315 – 410 nm<br>UV-B 280 – 315 nm<br>UV-C 230 – 280 nm*                            |
| Available temperature range:  | 32 to 302° F / 0 to 150° C   |
| Measuring range:              | 0 to 2,000 mW/cm <sup>2</sup>  |
| Dose range:                   | 0 to 65,000 mJ/cm <sup>2</sup>   |
| Evaluation software:          | Scanchart MC   |
| Sample rate:                  | 0.02 sec   |
| Power source:                 | 2 x 3.7 V Lithium Polymeric accu rechargeable or mains connection  |
| Power consumption:            | 60 mA  |
| Battery service life:         | 1,000 re-charging cycles   |
| Dimensions:                   | base unit : approx. 4" x 6.5" x 1" (100 x 160 x 25 mm)<br>sensors : round approx. 1.5" x .35" (40 x 10 mm) |
| Weight:                       | approx. 36 ounce (1000 g)  |
| Temperature range:            | 32 to 113° F / 0 to 45° C  |
| Heat protection:              | Heat shield on back plate  |
| Base Accuracy:                | ± 5 %  |

While on the conveyer belt, the Data Sampler PL 2516 SD can withstand max. 110° C/230° F for up to 10 seconds. The temperature of the housing must 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 replacement of batteries. PTB traceable calibration

\*Further spectral ranges and sensors available upon special request, sampling rates see example