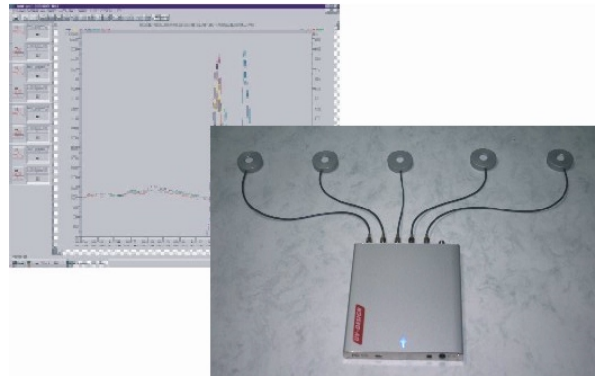


THE WIDE RANGE OF UV - IR TECHNOLOGY



UV-Data Sampler Model PL 2508 –Slim Line –

- + *extra slim design*
- + *up to 8 channels*
- + *individual UV & temperature measuring*
- + *temperature measuring 0 – 150°C (32 – 302°F)*
- + *up to 8 probe-type sensors (UV and temp)*
- + *UV intensity mW/cm²*
- + *UV dose mJ/cm²*
- + *pass-through data acquisition*
- + *parameter selection*
- + *auto scale function*
- + *free selectable Integral*
- + *graphic charts on PC via USBComPort*
- + *result storing on PC via USB ComPort*
- + *Microsoft Evaluation Software*



The UV-Data Sampler 1-8 PL2508 Slim Line is a portable, pass-through, UV & temperature data sampling unit for UV & IR Curing systems, UV & IR Profile Analysing and 3D-UV & IR Data Acquisition.

According to the customers' requirements, the UV-Data Sampler 1-8 PL2508 Slim Line is available in various configurations:

Any combination of up to 8 individual sensors can be configured e.g:

- UV 230 – 410 nm
- UV-A 315 – 410 nm
- UV-B 280 – 315 nm
- UV-C 230 – 280 nm
- 0 - 302° F / 0 to 150° C

The UV-Data Sampler 1-8 PL2508 Slim Line profiling ultraviolet and temperature data sampling system has been specifically designed to measure UV-radiation and temperature on high-end UV-IR curing machines.

Via USB ComPort, it is connected to a PC in order to pre-select parameters for the measuring cycle. After passage of the curing chamber the recorded data can be downloaded to a computer for further editing by Microsoft Evaluation Software. The measurement, integrating, and recording of data from all sensor channels takes place at user-defined intervals.

The sensors are probe-type round sensors connected with a flexible cable.

The measuring results are displayed on graphs as mW/cm², mJ/cm² 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

- Item 31.6.1. ff., UV-Data Sampler PL2508 – Slim Line –
- Item 31.2. ff., UV-Sensors with Cable Connection
- Item 31.3. ff., Temperature Sensors with Cable Connection
- Item 31.4. ff., Sensor
- Item 31.9.1. Battery Charger RLG

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THE WIDE RANGE OF UV - IR TECHNOLOGY



UV-Data Sampler Model PL 2508 –Slim Line –

The powerful Windows CE evaluation software is included and enables the user to synchronise the UV-Data Sampler 1-8 Channel with a PC via RS232.

Technical Data:

Available UV spectral ranges:	UV 250 – 410 nm UV-A 315 – 410 nm UV-B 280 – 315 nm UV-C 230 – 280 nm*
Available temperature range:	32 to 302° F / 0 to 150° C
Measuring range:	0 to 5,000 mW/cm ²
Dose range:	0 to 65,000 mJ/cm ²
Dynamic range:	0 to 1,500 mW/cm ²
Amplification:	x1, x10, x100, +adjustable
Sample rate:	0.01 sec to 24 h*
Recording time:	6 min to 122 months (with 8 channels)*
Power source:	2 x 3.7 V Lithium Polymeric accu rechargeable or mains connection
Power consumption:	60 mA
Battery service life:	2,000 re-charging cycles
Dimensions:	base unit : approx. 7" x 6" x .9" (180 x 150 x 22 mm) sensors : round approx. 1.5" x .35" (40 x 10 mm)
Weight:	approx. 39 ounce (1200 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 UV-Data Sampler 1-8 PL2508 Slim Line can withstand max. 110° C/230° F for up to 10 seconds. The temperature of the housing should not exceed 45° C/113° F.

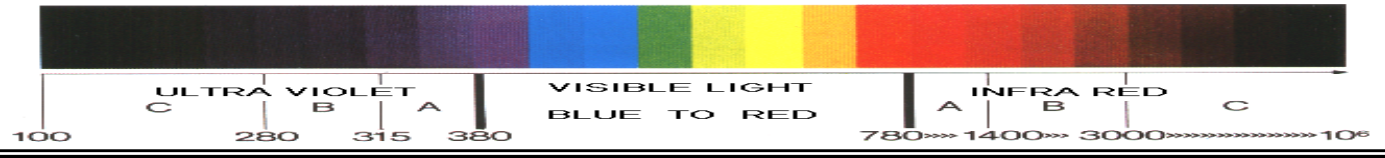
Calibration:

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 replacement of batteries. PTB traceable calibration

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

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THE WIDE RANGE OF UV - IR TECHNOLOGY



UV-Data Sampler Model PL 2508 –Slim Line –

Storing capacity depending on number of channels and sampling rate

62.310 RAM			Sampling rate msec					sec					min					hrs									
CH	Block	Block No.	1	2	5	10	20	50	100	200	500	1	2	5	10	30	1	2	5	10	30	1	2	5	12	24	
			Recording time					Recording time					Recording time					Recording time									
			in seconds					in minutes					in hours					in days					in months				
1	3	20770	21	42	104	206	7	17	35	69	173	6	12	29	58	173	14	29	72	144	433	29	58	144	346	692	
2	5	12462	12	25	62	125	4	10	21	42	104	3	7	17	35	104	9	17	43	87	260	17	35	87	208	415	
3	7	8901	9	18	45	89	3	7	15	30	74	2	5	12	25	74	6	12	31	62	185	12	25	62	148	297	
4	9	6923	7	14	35	69	2	6	12	23	58	2	4	10	19	58	5	10	24	48	144	10	19	48	115	231	
5	11	5665	6	11	28	57	2	5	9	19	47	2	3	8	16	47	4	8	20	39	118	8	16	39	94	189	
6	13	4793	5	10	24	48	2	4	8	16	40	1	3	7	13	40	3	7	17	33	100	7	13	33	80	160	
7	15	4154	4	8	21	42	1	3	7	14	35	1	2	6	12	35	3	6	14	29	87	6	12	29	69	138	
8	17	3665	4	7	18	37	1	3	6	12	31	1	2	5	10	31	3	5	13	25	76	5	10	25	61	122	

Examples for sampling rate vs. recording time:

PL 2508-3 equipped with three sensors

Sampling rate: 10 ms 100 ms 1 sec 1 min 1 hr
 Recording time: 89 sec 900 sec (15 min) 7200 sec (2 h) 6 days 12 months

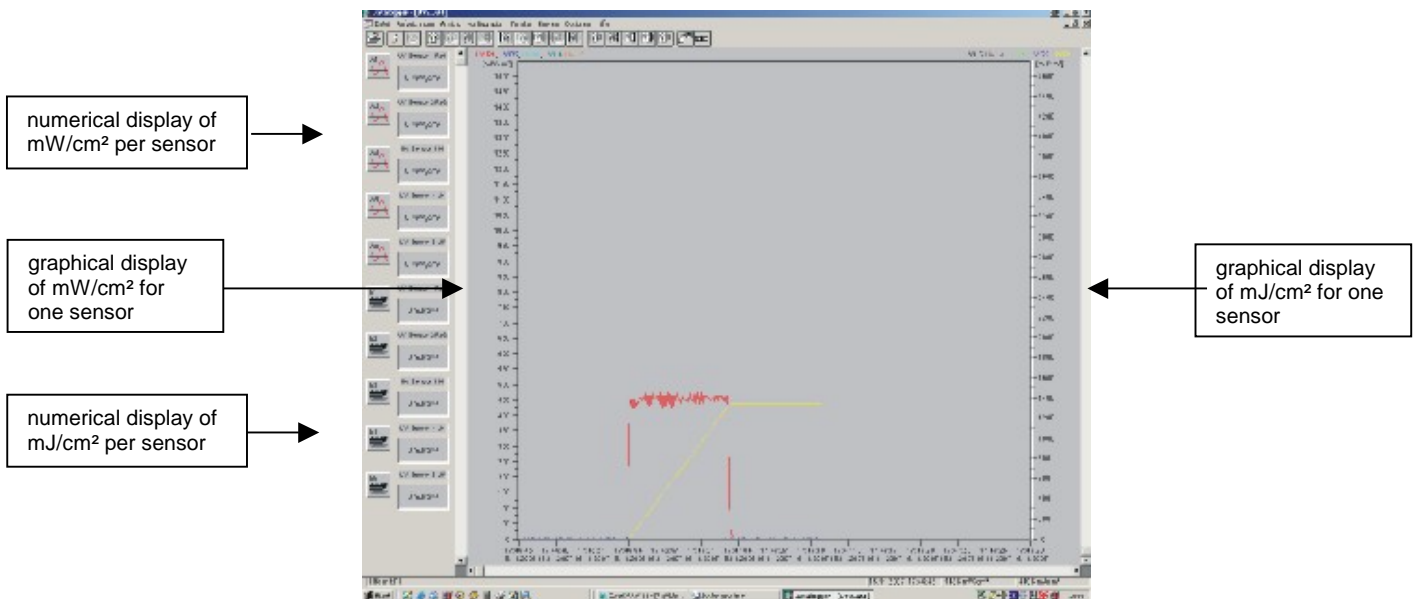
PL 2508-5 equipped with five sensors

Sampling rate: 10 ms 100 ms 1 sec 1 min 1 hr
 Recording time: 57 sec 540 sec (9 min) 7200 sec (2 h) 4 days 8 months

PL 2508-8 equipped with eight sensors

Sampling rate: 10 ms 100 ms 1 sec 1 min 1 hr
 Recording time: 37 sec 360 sec (6 min) 3600 sec (1 h) 3 days 5 months

Example: Display of measuring results on PC



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