



Equipment

Product Information

MR® 480 UV-light Dosimeter (NDT)



Article-No. 480

- Personal protection dosimeter – developed to monitor and protect employees according to legal regulations in areas, which are endangered by artificial UV-light.
- The reduction of risk due to the exposure to artificial visual radiation is based on the principles of risk prevention in the regulation 89/391/EWG
- The device has an „electronic skin“ (erythema sensor) and evaluates every artificial and natural radiation according to its hazard
- All erythema values are continuously measured every second and saved as integral every 30 seconds
- When the legal limit is reached, the device gives a visual and an acoustic alarm
- In this case employees should immediately contact a responsible safety officer
- Measured values can be uploaded using the supplied software and saved in an Excel file
- Charging and uploading the values is possible via supplied USB cable



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Housing	ABS material
Weight & dimensions	20 g (20mmx15mmx5mm)
Measuring range	0-450 mW/m ²
Measuring accuracy	± 15 %
Measurement uncertainty	5 %
Measuring rate / Storing interval	Measuring rate: 1 x per second Storing interval: every 30 seconds
Safety class according to DIN EN 60529	IP54
Number of maximum stored measuring values	2,880 with date and time ► Reset at 0:00 am
Operating temperature	10°C – 40°C
Alarm message after daily dose (30 Jm ² /24 h, Starting at 0:00 am)	<ul style="list-style-type: none">- Visually by bargraph LED- Acoustically by warning signal every 30 seconds
Battery life	approx. 10 days
Charging of battery	weekly
Data storage	weekly and when the limit value is reached
Battery charge level	Visually through middle LED
Checking / assessing hazard conditions	Press key 1 x green LED: working place non-hazardous 5 x red LED: working place extremely dangerous
Scope of delivery	<ul style="list-style-type: none">- MR® 480 UV-light Dosimeter (NDT)- USB-Stick with software Win10 for evaluation- USB charging cable or rather connection cable for PC (0,5 m length)- Transport box

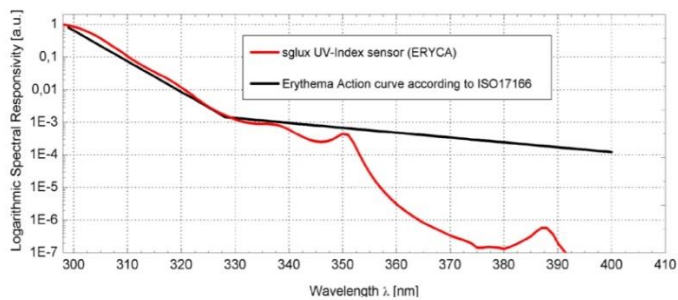


Technical Annex:

Relative sensitivity of erythema sensor:

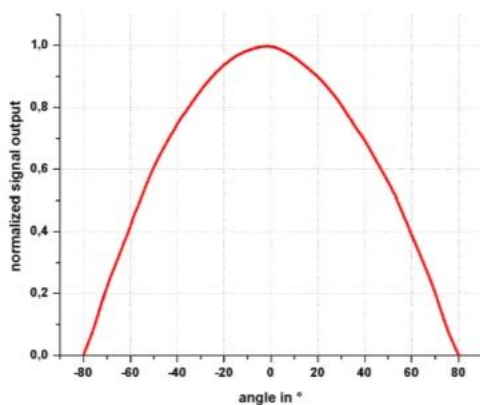
NORMALIZED SPECTRAL RESPONSIVITY & ERYTHEMA ACTION CURVE

Weighting function to the formation of an erythema



Input optics angular dependence cosine:

FIELD OF VIEW



Evaluation

For weighting of the registered UV-light the function for forming an erythema is used.