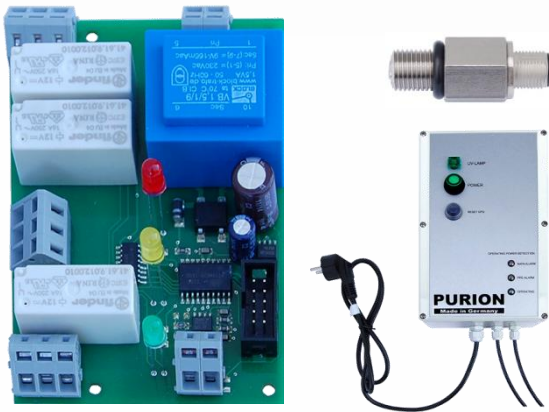


PURION Monitoring of the UV intensity of the UV lamp Operating Power Detection - OPD 2

PURION guarantees disinfection up to a time of operation of the PURION UV lamps of max. 10.000 h.¹ Afterwards the PURION UV lamp has to be replaced. The Operating Power Detection OPD 2 option monitors the life time of the UV lamp via detecting the UV intensity. The current status is displayed via LED.



picture: OPD 2 board, sensor and integration in control box²

This system directly detects the UVC intensity via sensor.

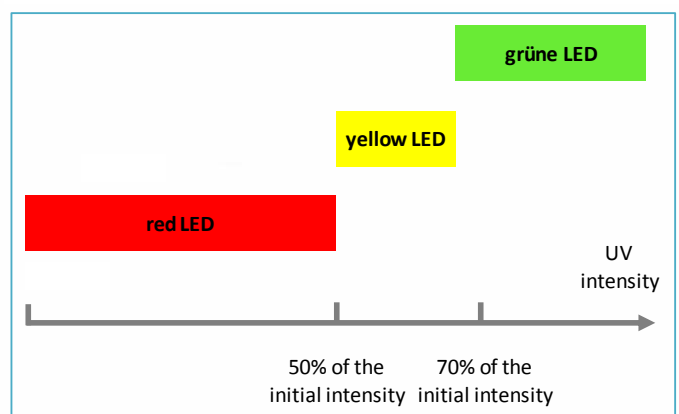
The monitoring system is designed as a traffic light and integrated in the control box. Two thresholds for UV intensity have been saved:

- As long as the UV intensity is more than 70% of the initial value the **green LED** is illuminated.
- If the UV intensity goes below 70% of the initial value the **yellow LED** is illuminated.
- If the UV intensity goes below 50% of the initial value the **red LED** is illuminated. To ensure disinfection the UV lamp has to be replaced.

It is necessary to readjust the system after replacement of the UV lamp with the specified reset-procedure.

It is urgently recommended to clean the immersion tube system with the PURION Service KIT at latest during replacement of the UV lamps.

manufacturer	PURION® GmbH
type	Operating Time Counter - OPD 2
voltage supply	230 V AC or 12 V DC or 24 V DC
signal input	SiC-UV-Sensor
signal output	optional: potential free contact for any LED
load potential free contacts	up to 100 mA
special function	reset after replacement of the lamp
steady light (green LED)	> 70% of the initial intensity
pre-alarm (yellow LED)	< 70% and min. 50% of the initial intensity
main-alarm (red LED)	< 50% of the initial intensity
additional function	potential free changeover contact for any LED



Advantages

- automatic recording of the exact UV intensity that is currently used for disinfection
- automatic (pre-)alarm when lamp replacement is necessary
- possibility to link LED information with additional switching operations
- safe reset-procedure
- maintenance free operation

¹ For UV plants of the PURION H product family the warranted service life is 8.000 operating hours.

² Exemplarisch