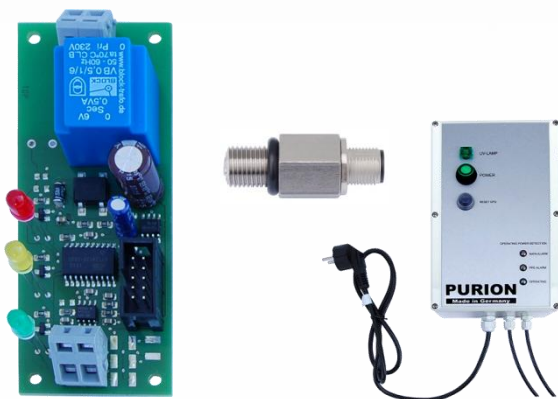


PURION Monitoring of the UV intensity of the UV lamp Operating Power Detection - OPD

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 option monitors the life time of the UV lamp via detecting the UV intensity. The current status is displayed via LED.



picture: OPD board, sensor and integration in control box²

This system directly detects the UVC intensity via sensor.

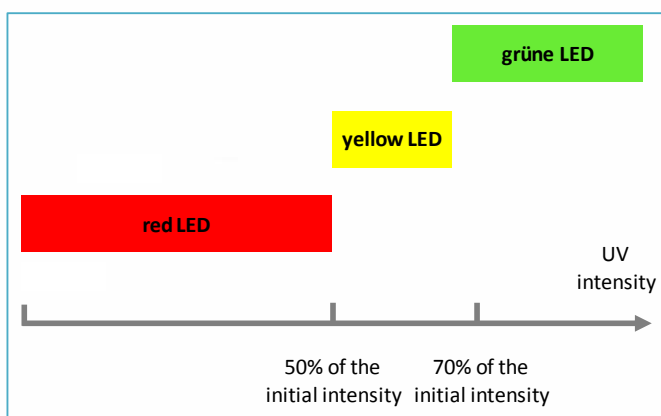
The monitoring system is designed as a traffic light and integrated in the control box. Two thresholds for UV intensity have been saved:

- 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 |
| 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 |



Advantages

- automatic recording of the exact UV intensity that is currently used for disinfection
- automatic (pre-)alarm when lamp replacement is necessary
- 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