

SUV 19 UV-Sensor with 360° panorama view

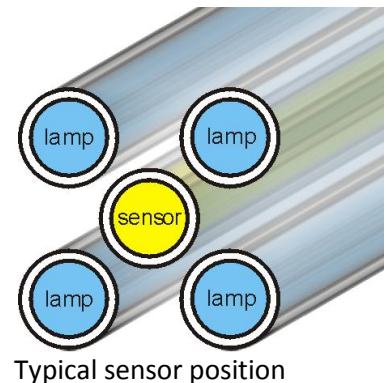
This sensor is appropriate for monitoring of the intensity of UV radiation from UV lamps especially in **waste water plants**. He should be placed typically parallel to the lamps in a separate submersion tube with diameter 23 mm. Accommodation to other tube diameters can be done easily with Teflon rings or Viton O-rings to guaranty the centring in the tube.

The cable is attached on the sensor with a PG cable gland and is protected in the fist part against UV radiation. The length from the aperture to the end of the cable protection is approx. 750 mm.

Entrance of the radiation takes place rotation-symmetric over the quartz tube. Predominantly radiation parts perpendicular to the longitudinal axis will be collected.

Main features:

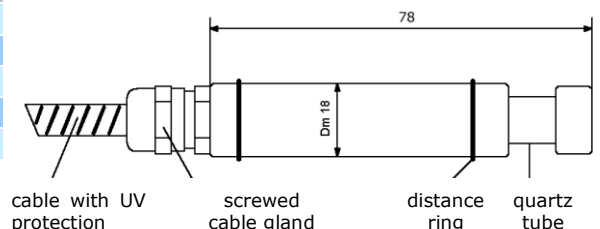
- probe body made of stainless steel 1.4404, \varnothing 18 x 92 mm
- GaN based sensor UVD370, spectral sensitivity 220 to 370 nm unaffected by daylight and only sensitive to UV
- sensors with internal amplifier (option Y1/2) are calibrated on 253,7 nm - monochromatic radiation of a low pressure lamp
- 360° UV entrance, \varnothing 12 mm
- direction sensitivity predominantly to the longitudinal axis (see the diagram)
- operating temperature: 0 to 60°C
storage temperature: -40 to 70°C
- degree of protection IP65
- standard design with 5 m cable LiYCY 4 x 0,14 mm², open ends thereof approx. 700 mm flexible stainless steel protection tube
- using in combination with MUV35Y1/2 (external rectifier voltage/current) needs minimizing of cable length, shorter than 1m is recommended to reduce EMC disturbances
- internal rectifier option Y1-voltage or Y2-current output available, necessary if EMC disturbances prevent a stabile signal with the standard sensor, connections see next table



SUV 19	SUV 19 Y1	SUV 19 Y2	cable colours
anode	signal output	+ UB	yellow
	+ UB	+ UB	brown
cathode	- UB	I out	green
	GND	I out	white
shield*	shield**	shield**	red

* for SUV19: please ground the shield or connect to anode

⚠ ** for SUV19 Y: please ground the shield in case of disturbance
Shield is connected to sensor body internally – avoid ground loops!



Spectral sensitivity:

