





# UV online sensor QSO 3

for permanent measurement of UV intensities

#### **Features**

- Measurement of the relative UV intensity
- DC 0...10 V measuring signal proportional to the UV irradiance
- Air purging connection

### **Advantages**

- Designed for permanent measurement of intensive UV irradiation
- Robust construction made of UV-resistant materials
- Amplification factor of the measuring signal is adjustable via DIP switches

## **UV online sensor QSO 3**

for permanent measurement of UV intensities

This sensor was developed to allow inline UV measurement of UV medium pressure lamps or UV LEDs. The high UV intensity as well as the high temperatures, which let drift normally the values, were a challenge but using the right materials and sensors and the special quartz rod system makes an easy to use UV online sensor possible.

### **Application**

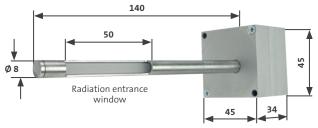
The quartz rod of the sensor can be placed close to the lamp or UV LED, e.g. at the edge of the reflector.

## **Operation**

The measuring signal of the UV inline sensor QSO 3 is a DC 0... 10 V signal proportional to the uv irradiance (e.g. for a machine control).

### **Delivery**

The QSO 3 is delivered ready for operation and can be fixed with two M4 screws. The sensor requires an auxiliary voltage DC 12-24 V. The electrical connection is made via an M12 device plug provided by the customer. If required, purge air can be connected.



Dimensions in mm

#### **Technical data**

Spectral measuring ranges								
J JPC	ctiai II	icasul	I				111/155	200 445
				L	ED			380 – 445 nm
			Vis				UV-VIS	380 – 445 nm
		Α					UV-A	315 – 395 nm
	В						UV-B	265 – 325 nm
С							UV-C	230 – 280 nm
Measuring ranges					20 to 2,000 mW/cm² 250 to 25,000 mW/cm²			
Amplification factors					1, 10, 100, 1000 and in combination 0.3			
Output signal					DC 0-10 V (propotional to irradiance)			
Max. permissable intensity					10.000 mW/cm² (max. 10 min) 30.000 mW/cm² (max. 10 s)			
Temperature range					sensor box: 15°C50°C quartz rod at measuring window and at end of stainless steel tube: 300°C			
Auxiliary voltage					DC 12-24V			
Air purging					1/8" (max. 0.5 bar)			
Dimensions					approx. 45 x 45 x 34 mm; stainless steel protection tube: L = 140 mm, Ø 8 mm			
Weight					approx. 200 g			
Housing materials					anodised aluminium protection tube: stainless steel quartz rod: synthetic			
Protection class					IP20			





uv-technik Speziallampen GmbH, Gewerbegebiet Ost 6, 98693 Ilmenau, Germany Phone: +49 36 785 520-0, Fax: +49 36 785 520-21, www.uvtechnik.com