


Data sheet SUV 20.2 Y2 C (DVGW 40°)

General

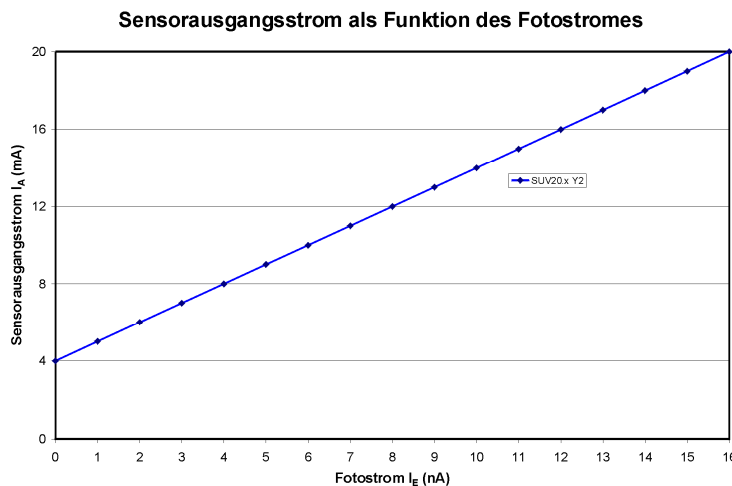
This sensor is designed to be used in UV disinfection units and is suitable for monitoring of UV dose of UV lamps according DVGW work sheet W 294-3 (issue 4/2005). It is designed as a plug in sensor. Sensors of this type are very precise and have a small aging effect. The calibration is traceable to a standard of the Physikalisch-Technische Bundesanstalt Braunschweig (PTB).



Technical data

DVGW-Type SUV 20.2 Y2 C	
Related standard	DVGW-work sheet W 294-3 (06/2006)
Compliance	Not yet validated, in the meantime please ask for our 3.1B certificate
Labeling	 IL-M SUV20.2Y2C + J-M-lfd. Nr. + MMJJ + 40° + 4-20mA + measurement range in W/m ²
Material of sensor body	Stainless steel 1.4404
Geometry	Plug in area Ø 20 x 59 mm, total length 73 mm, with collar and notch for O-Ring 18,77 x 1,78 (see drawing)
Pressure resistance	1 bar short time (in measuring window FUV38 up to 16 bar pressure resistant)
Ambient temperature	Ambient temperature: 0 to 60°C (short time 100°C), Storage temperature: -20 to 70°C
Opening angle	40°, see Diagram
Measuring / working range	50, 100 ¹ , 200, 500 ² , 1000 W/m ² according DVGW (¹ standard value LP, ² standard value MP)
Calibration uncertainty	≤ ± 1 % compared to Reference radiometer
Selectivity	240 nm to 290 nm
Measuring uncertainty	≤ ± 5 % of end value
Linearity of working range	≤ ± 1 % of end value, see Diagram
Temperature drift	≤ ± 1,5 % in the temperature range 5°C to 35°C, in relation to 20°C
Long time stability / Aging	≤ 1 % / 1000 h related to end value
Recalibration period	24 months
Operating voltage U _B	24 V DC (min. 12V, max. supply voltage of the used IC is 36 V DC!)
Operating current	Max. 25 mA
Load resistance	Null up to R _{Load max} = (U _B - 8,5 V) / 0,02 A (R _{Load} = internal resistance of meter or PLC)
Output signal	4 to 20 mA according to chosen measurement range
Pin assignment	+ U _B pin 1 and 2, I _{out} pin 3 and 4
Accessory cable	Z1G-I 5 m length (longer cable on request possible), screwed IP65

Linearity of measuring range



Drawing sensor housing

