



# Measurement Equipment UV-Sensors according to Austrian Standard ÖNORM UV-Sensor D-SiCONORM / SiCONORM

high innovative:  
digital sensor - one for all



certified

### Features

- ↪ measuring of UV-intensity according to Austrian standard ÖNORM M5873-1 / Vornorm ÖNORM M5873-2
- ↪ digital types
  - multiple integrated measurement ranges combined with automatic range selection ensure high accuracy
  - direct output of measured UV-value in W/m<sup>2</sup>
  - fail safe signal transmission even with long cables
  - connecting additional sensors to the RS485 bus enables multi sensor operation
- ↪ voltage or current types
  - different calibration values according to system requirements
  - high resistance to solarization (degradation)

sensor type	aperture angle	measurement range	output signal / protocol	min. load resistance R <sub>min</sub>	max. load resistance R <sub>max</sub>	lamp types
<b>digital types</b>						
D-SiCONORM-LP	160°	2...500W/m <sup>2</sup>	RS485 - ZCON/ModBus**	-	-	low pressure lamps
D-SiCONORM-MP	160°	20...3000W/m <sup>2</sup>	RS485 - ZCON/ModBus**	-	-	medium pressure lamps
<b>voltage types</b>						
SiCONORM-U2-LP	160°	calibration value is to be specified by customer	0...2V	220Ω	-	medium pressure lamps
SiCONORM-U2-MP	160°		0...2V	220Ω	-	medium pressure lamps
SiCONORM-U10-LP	160°		0...10V	660Ω	-	low pressure lamps
SiCONORM-U10-MP	160°		0...10V	660Ω	-	medium pressure lamps
<b>current types</b>						
SiCONORM-I-LP	160°		4...20mA	-	9V⇒330Ω /	low pressure lamps
SiCONORM-I-MP	160°		4...20mA	-	24V⇒1kΩ	medium pressure lamps

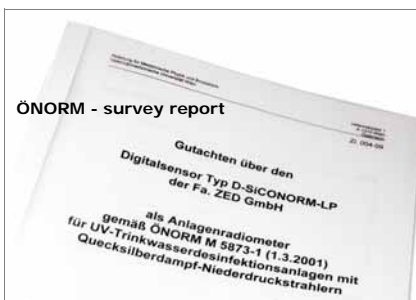
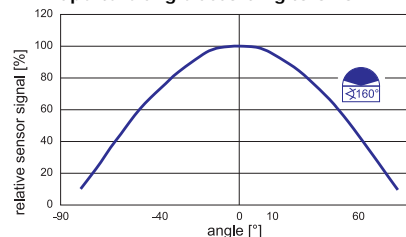
\*\*call for ModBus sensors

<b>sensitive element:</b>	silicon carbide (SiC) diode	<b>sensorbody material:</b>	stainless steel 1.4305
<b>temperature drift:</b>	< 0,1 %/K	<b>operating temperature:</b>	0...40°C
<b>protection class:</b>	IP64 on terminal ends if connected to appropriate sensor cable	<b>max. pressure:</b>	10bar (if used with MF001)
<b>supply voltage U<sub>B</sub>:</b>	9... 24V DC stabilised (min 12V DC for -U10 types)		
<b>operation current:</b>	SiCONORM-Uxx-xx: <10mA   SiCONORM-I-xx: <30mA   D-SiCONORM-xx: <20mA		
<b>connections:</b>	cable, length 2.90m, with plug M12 (other cable lengths on request)		
<b>recommended monitoring equipment:</b>	SiCONORM-Uxx-xx: on request SiCONORM-I-xx: PRO11DPI-I, PRO16DPI-I, UV-Compact D D-SiCONORM-xx: PRO11DPI-I, PRO16DPI-I, PRO30, UV-Compact D, ZCAB, ZCON-mini, PLC systems		
<b>dimensions / weight:</b>	diameter of the body: 20mm   diameter of the outer ring: 27mm   length: 91mm   insert length: 59mm 83g (without cable)		
<b>mounting restrictions:</b>	use of an ÖNORM compliant measurement window MF001 is mandatory (see page no. 89)		

**Note:**  
The sensors are adjusted by using a point source (UVC 254nm).

When irradiation of a source different from point sources is being measured absolute values may differ since results of radiation physical measurements strongly depend on geometry.

aperture angle according to ÖNORM



subject to change