

Measurement Equipment UV-Sensors with Digital Interface UV-Sensor D-SiC131 / D-SiC133

**high innovative:
digital sensor - one for all**



Features

- ⇒ suitable successor model to D-SiC031 / D-SiC033 Series
- ⇒ measuring of absolute UV-intensity
- ⇒ cosine correction for angle-dependent UV quantitation
- ⇒ multiple integrated measurement ranges combined with automatic range selection ensure high accuracy
- ⇒ direct output of measured UV-value in W/m²
- ⇒ fail safe signal transmission even with long cables
- ⇒ connecting additional sensors to the RS485 bus enables multi sensor operation
- ⇒ high resistance to solarization (degradation)

sensor type	aperture angle	measurement range*	output signal - protocol	thread/length for mounting**	wrench size [mm]	diameter [mm]	length [mm]	weight [g]
D-SiC131-LP	160°	0...500W/m ²	RS485 - ZCON / ModBus***	G 1/4" / 14mm	22	25,4	70	90
D-SiC131-MP	160°	0...3000W/m ²		G 1/4" / 14mm	22	25,4	70	90
D-SiC133-LP	160°	0...500W/m ²		G 3/4" / 14mm	32	37	70	255
D-SiC133-MP	160°	0...3000W/m ²		G 3/4" / 14mm	32	37	70	255

* other range limitation on request
 ** pipe thread of Whitworth form (BSP DIN ISO 228)
 *** call for ModBus sensors

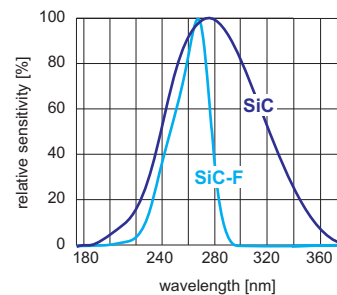
add "-F" for sensor with UV-C filter

for digital sensor types according special regulations
 see "UV-Sensors according to German Standard DVGW" at page 87 or see "UV-Sensors according to Austrian Standard ÖNORM" at page 88

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.

Measurement results may differ from DVGW sensors because of the different optical characteristics.



Limitation of spectral sensitivity with UV-C filter available on request especially for use with medium pressure lamps.

sensitive element:	silicon carbide (SiC) diode	body material:	stainless steel 1.4404
spectral range:	210...380nm (with UV-C filter: 220...290nm)	temperature drift:	< 0,1%/K
supply voltage U_B:	12... 24V stabilised	operation current:	≤ 20mA
operating temperature:	0...40°C	max. pressure:	10bar
protection class:	IP64 on terminal ends if connected to appropriate sensor cable		
connection:	connector M12, mounting cable with plug included, length: 2.90m (other cable lengths on request)		
recommended monitoring equipment:	UV-Monitor: PRO11DPI-I, PRO16DPI-I, PRO30 Complete UV-systems: UV-Compact D, ZCAB, ZCON-mini		
mounting restrictions:	the thread has to be covered with teflon tape or ceramo paste before mounting, use a sealing ring behind the thread		