



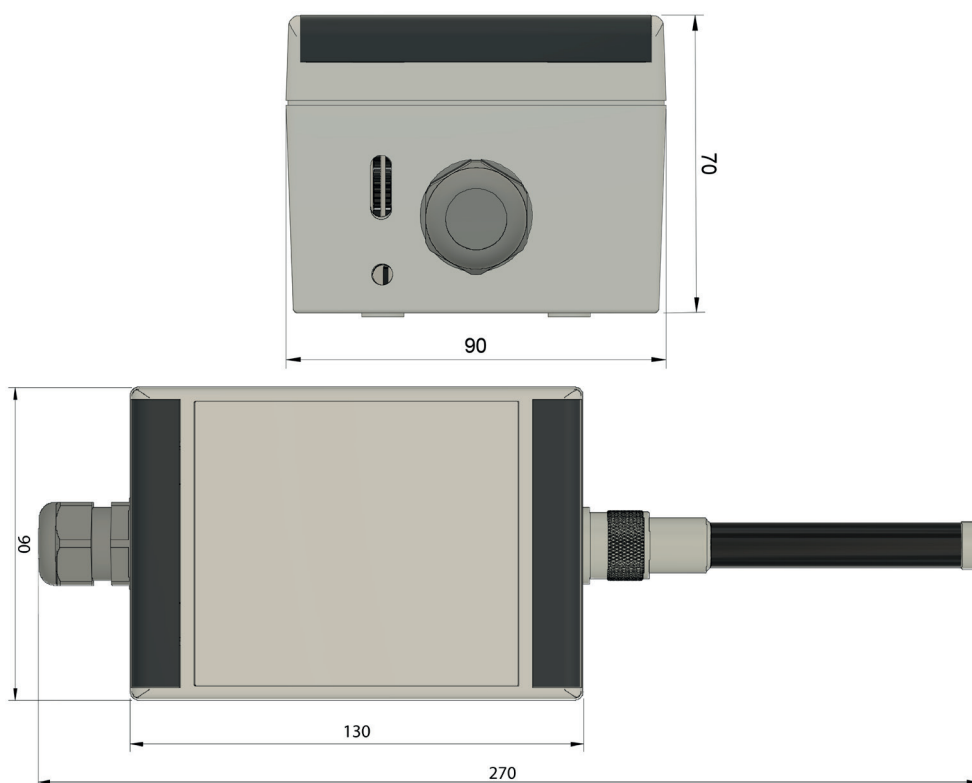
### Description

The SLC-Box Particulate Matter represents a new technological breakthrough in optical PM sensors. Its measurement principle is based on laser scattering and makes use of Sensirion's innovative contamination-resistance technology. The integration into the esave wireless network is straightforward and the Sensirion sensor can be easily retrofitted. You can evaluate the sensor data on our SL-Control webplatform and check your air quality.

### Features

- Precise measurements for different types of dust and other particles
- Detailed visual statistics if monitored through SL-Control webplatform
- Minimal configuration needed

### Dimension



### Maximum ratings

Parameter	Sym	Min	Max	Unit
Supply Voltage	$V_{in}$		240	V AC
Operating Temp.	$T_A$	-10	+60	°C
Storage Temp.	$T_S$	-40	+70	°C
Surge / burst input voltage immunity	$V_{ps}$		2.0	kV

### Operating characteristics

Parameter	Sym	Min	Typ	Max	Unit
Supply Voltage Range	$V_{in}$	100		240	V AC
Power usage $I_{out} = 0mA$ $V_{Sup} = 230 V AC$	$P_{op}$		0.43		W

### Wireless characteristics

Parameter	Sym	Min	Typ	Max	Unit
RF frequency range (center frequency)	$f_w$	2.420		2.480	GHz
RF nominal output power			4.5	8	dBm
Receiver sensitivity			-97	-92	dBm

### Approvals

Category	Declaration / Certificates
CE conformity	CE compliant
Hazardous substances	RoHS compliant: Restriction of Hazardous Substance Directive
Housing flame resistance	UL Recognized Flame Class Rating: UL 94 HB
Electromagnetic compatibility (EMC / ERM)	<ul style="list-style-type: none"> <li>EN 300 328 V2.1.1 (2016-11)</li> <li>EN 301 489-1 V1.9.2 : 2011</li> <li>EN 301 489-17 V2.2.1 : 2012</li> <li>EN 61000-6-2 : 2005</li> </ul>
Safety	<ul style="list-style-type: none"> <li>EN 60950-1 : 2006</li> </ul>