



Description

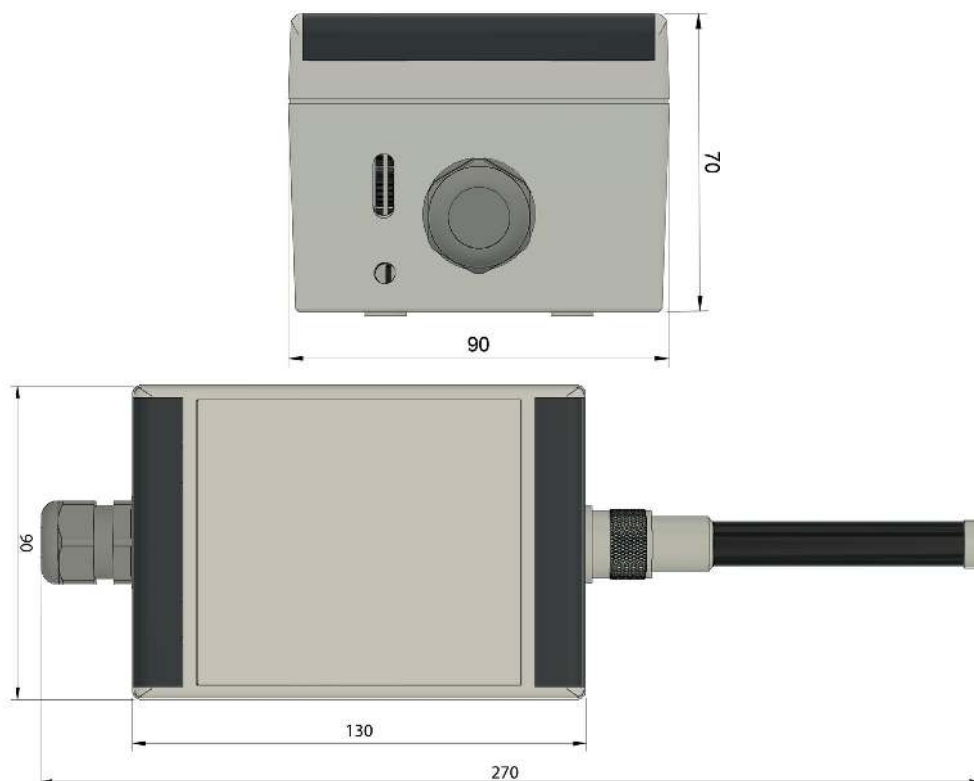
The SLC-Box Particulate Matter represents a new technological breakthrough in optical PM sensors. Its measurement principle is based on laser scattering and makes use of Sensirion's innovative contamination-resistance technology.

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"> EN 300 328 V2.1.1 (2016-11) EN 301 489-1 V1.9.2 : 2011 EN 301 489-17 V2.2.1 : 2012 EN 61000-6-2 : 2005
Safety	<ul style="list-style-type: none"> EN 60950-1 : 2006