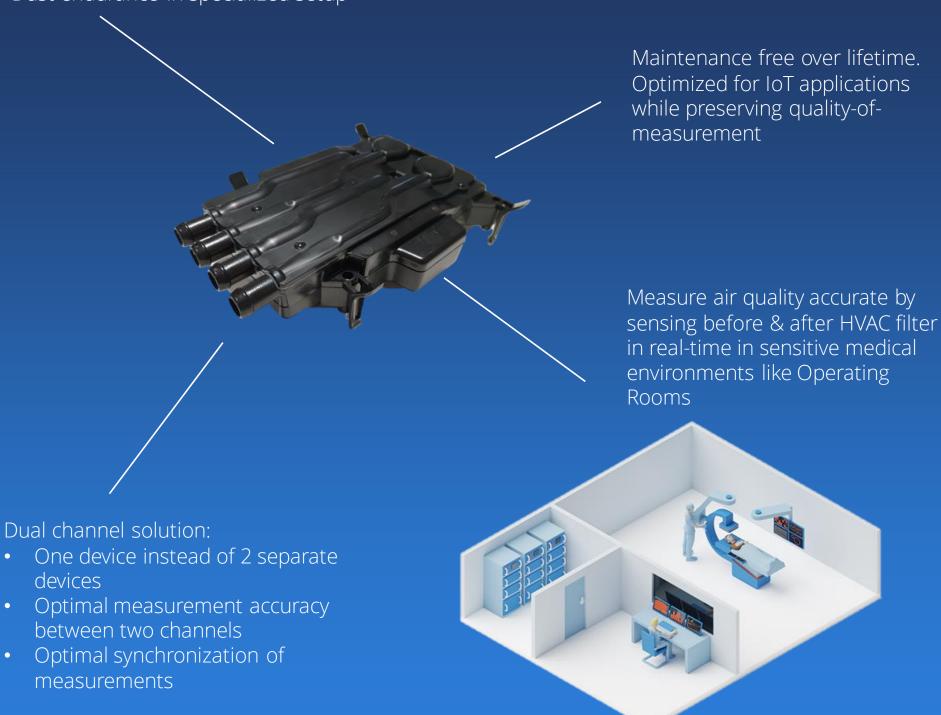


PM2.5 Air Quality Sensor for medical environment

Proven robustness:

- 3 years of field experience
- 10,000 hours of tests in different applications, environments, and circumstances
- Long term correlation measurements done at weather-stations all over the world
- Dust endurance in specialized setup



Highlights

- The DCPM2.5 features 2 calibrated sensor channels to simultaneously measure and compare PM2.5 particles between two independent channels.
- Short response time between air intake and sampled measurements to enable actions to improve air quality and optimize air conditioning strategy
- The DCPM2.5 is developed with focus on accuracy and reliability over lifetime



PM2.5 Specifications







Real-time parallel PM2.5 measurements



Fast response

Description	Specification DCPM2.5
Number of channels	2 in one device
Measurement range	0 μg/m³ – 1200 μg/m³
Resolution	1 μg/m3
Accuracy	±10 μg/m ³ + ±15%
Calibration accuracy	7%*
Channel to channel accuracy	<1%
Start up time	<10s
Update frequency	2s
Operational temperatures	-40°C to +70°C **
Operational humidity	RH5% to RH95%
Power consumption	3.5W (worst-case)
Allowed external pressure drop	32Pa
Dust robustness	1500 mgh/m ³
Lifetime	8000h of sampling time
Communication interface	LIN
L*W*H	~160*115*40mm
IP Rating	IP5K0

^{*} Relative to reference lab setup

^{**} Best effort measurement from -40°C to -10°C