

Particulate Matter Sensor SPS30

Do you have any questions or want to discuss a future project? Please contact us.

Sensor Specifications	
	±10 μg/m³ @ 0 to 100 μg/m³
Mass concentration accuracy ¹	±10 % @ 100 to 1000 μg/m ³
Mass concentration range	1 to 1000 μg/m³
Mass concentration resolution	1 μg/m³
Particle detection size range ²	Mass concentration: PM1.0, PM2.5, PM4 and PM10 Number concentration: PM0.5, PM1.0, PM2.5, PM4 and PM10
Lower limit of detection	0.3 μm
Minimum sampling interval	1 sec (continuous mode)
Lifetime	> 8 years operating continuously 24h/day
Dimensions	40.6 x 40.6 x 12.2 mm ³
Operating temperature range	-10 to +60 °C
Storage temperature range	-40 to +70 °C
Electrical Specifications	
Interface	UART, I ² C
Supply voltage	4.5 – 5.5 V
Average supply current @ 1 Hz measurement rate	< 60 mA

 $^{^{1}\,\}text{Specified for PM2.5 at 25 °C using potassium chloride salt particles and the TSI \,DustTrekTM \,DRX \,Aerosol \,Monitor \,8533 \,as \,a \,reference.}$

 $^{^2}$ PMx defines particles with a size smaller than "x" micrometers (e.g., PM2.5 = particles smaller than 2.5 μm).