



v3, May 2018

SKS8 Datasheet

Particulate Matter Sensor

-picture coming soon-

This document is the preliminary specifications of the SKS8 particulate matter sensing module for high accuracy and repeatability.

Parameters	Specifications
Measured Particle	PM1, PM2.5 and PM10
Operating Principle	Optical Particle Monitor
Particle Range	0.38 to 4µm spherical equivalent size (based on RI of 1.5) size categorization in 16 software bins
Sampling interval	1.4 to 10 seconds (Histogram period)
Volume flow rate	1.2 liter/minute
Max particle count	10,000 particles/second
Max coincidence probability	0.84% concentration at 10 ⁶ particles/L 0.24% concentration at 500particles/L
Operating Temperature Range	-10 - +50 °C
Supply Voltage	5 - 15V _{DC}
Supply Current	Measurement mode (typical) 175mA Laser on, fan off (typical) 95mA
Communication	Sparvio SSP
Size	Approx. 75 X 63.5 X 60mm without inlet hose
Weight	<120gm

Sparvio background

The Sparvio system provides a modular, plug-and-play solution for measuring various quantities for UAVs, other environmental studies, lab experiments and education. The system is designed to start immediate measurements without any further integration.

SKS8 is designed and manufactured in Sweden by Sparv Embedded AB.