



v3, May 2018

SKS7 Datasheet

High resolution Carbon Dioxide NDIR Sensor

-picture coming soon-

SKS7 gives the users an unprecedented level of weight to performance ratio. This document is the preliminary specifications of the high resolution CO₂ concentration sensing module.

Parameters	Specifications
Measured Gas	Carbon Dioxide
Operating Principle	Non-dispersive infrared (NDIR)
Measurement Range	0-1000ppm
Repeatability	0.1ppm peak to peak at constant temperature and constant flow.
Resolution	0.5 ppm at 2sec sampling interval 0.2 ppm at 10sec sampling interval 90 ppb at 1min sampling interval
Response Time	Limited by sampling interval
Operating Temperature Range	-40 - +85°C
Warm-up time	45 minutes to full spec
Supply Voltage	12 - 15V _{DC}
Supply Current	Approx. 6A at start-up (mirror heating) Approx. 350mA post start-up at room temperature
Communication	Sparvio SSP
Size	Approx. 85mm x 137mm
Weight	460gm with pump

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.

SKS7 is designed and manufactured in Sweden by Sparv Embedded AB.