

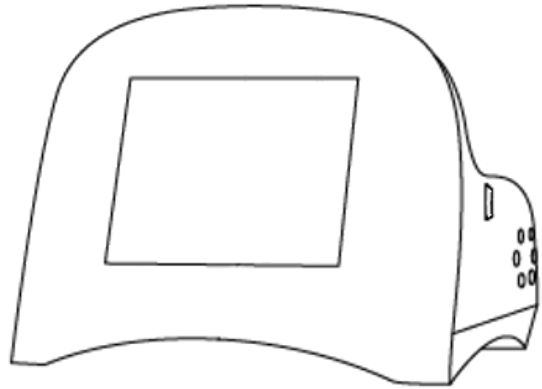
# Speck

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## Personal Fine Particulate Monitor

Speck is an air quality monitor that detects fine particulate matter in indoor environments and provides information about trends and changes in particle concentration.

Speck has Wi-Fi built in, enabling optional connection to a wireless network. Once online, and after linking it with a [speksensor.com](http://speksensor.com) account, the Speck will continuously upload its data to [speksensor.com](http://speksensor.com) where users can see its data in real time and explore its full history with a computer or mobile device.



## Specifications

Detection method	Optical, DSM501A
Size range of detected particles	0.5 – 3 microns
Measurement units	ppL or $\mu\text{g}/\text{m}^3$
Additional on-board sensors	Temperature and humidity
Environmental operating range	-10~ +65°C, <95% RH without condensation
Power Supply	Micro USB, 5V 500mA
Size	4.5" w x 3.5" h x 4" l
Weight	5.8 oz
Processor	Atmel XMEGA
Data Timestamps	Unix UTC via real-time clock
Sampling interval	5 seconds to 4 minutes (default 1 minute)
On-board data storage	Two years at 1 sample per minute
On-line data storage	Unlimited via ESDR account
Screen	3.2" TFT touchscreen
Display options	On/off, brightness control, colorblind mode
Connectivity	USB 2.0 through Chrome App, Wi-Fi b/g
Supported wireless encryption	Unsecured, WEP, WPA, WPA2 personal
On-screen data access	Current, past hour, or past 12 hours