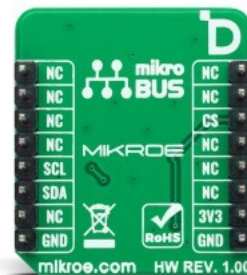


Air Velocity Click



PID: MIKROE-5448

Air Velocity Click is a compact add-on board that measures direct airspeed. This board features the [FS3000-1005](#), a surface-mount type air velocity module utilizing a MEMS thermopile-based sensor from [Renesas](#). This I2C-configurable air velocity module features a digital output with a 12-bit resolution with a wide operational range of 0-7.2meter/second (0-16.2mph). The sensor comprises a “solid” thermal isolation technology and silicon-carbide coating to protect it from abrasive wear and water condensation. This Click board™ is suitable for air handling systems, HVAC, analytic gas monitoring systems, data centers, and air quality systems to detect failures in the fan or blower, fan speed control, or filter clogging.

Air Velocity Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
ISO 14001: 2015 certification of environmental management system.
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	Environmental
Applications	Can be used for air handling systems, HVAC, analytic gas monitoring systems, data centers, and air quality systems to detect failures in the fan or blower, fan speed control, or filter clogging
On-board modules	FS3000-1005 - air velocity module from Renesas
Key Features	MEMS thermopile-based sensor, thermal isolation technology, resistant to surface contamination, low power application, I2C interface, and more
Interface	I2C
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Air Velocity click example on Libstock](#)

[Air Velocity click 2D and 3D files](#)

[FS3000 datasheet](#)

[Air Velocity click schematic](#)

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