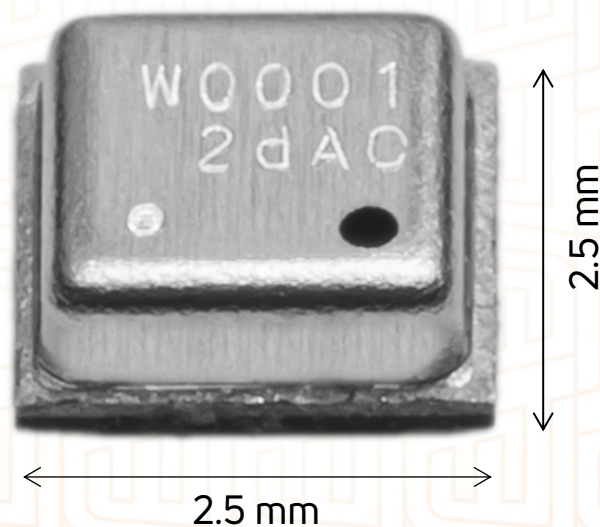# MEMS Vision
YOUR SMART SENSORS EXPERTS

Digital Humidity, Pressure & Temperature Sensor

- Proprietary Silicon Carbide (SiC) technology for improved reliability
- Digitally calibrated over humidity, pressure, and temperature
- Ultra low sleep current <0.01uA
- Best in-class accuracy and power consumption in the industry
- Outstanding long-term stability
- Small size and fast response

2.5 mm

2.5 mm

Applications:

- Weather stations
- Home appliances
- Instrumentation
- Building automation
- IoT

MoSiC®
Technology

The Infinite Possibilities of the Infinitely Small ™

Humidity, Pressure, and Temperature Sensors MVWS4000 Series

The MVWS4000 series consists of highly accurate digital relative humidity, pressure, and temperature sensors, based on a proprietary Silicon Carbide (SiC) technology for improved reliability. These sensors are optimized for high performance and ultra low power consumption. They are a perfect fit for demanding OEM and battery-powered applications. Different accuracy grades are also available to meet your budget target!

RH Accuracy	± 1.5%
Pressure Accuracy	± 1.0 hPa
Temperature Accuracy	± 0.3°C
Long Term Stability	< 0.1 %RH/Yr
	< 1.0 hPa/Yr
	< 0.03 °C/Yr
Power Supply	1.71 to 3.6 Vdc
Current Consumption	< 0.01uA (sleep)
	< 1uA (1Hz, H+T+P, lowest power setting)
Output	Digital I^{2}C, SPI
	H+T: 8-to-14 bit resolution
	P: 15-to-21 bit resolution
Operation Range	0 to 100 %RH
	300 to 1100 hPa
	-40 to 85 °C
Package Size	2.5 x 2.5 x 0.9 mm DFN

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ABOUT MEMS VISION

Headquartered in Montreal, Canada, with offices around the world, MEMS VISION INTL. capitalizes on a strong portfolio of patents and intellectual property on MEMS and ASICs (integrated circuits), and a team of highly qualified personnel, to offer hardware and software smart sensing solutions to its customers and partners serving the Consumer, Industrial, Medical, and Automotive markets. Our products include sensors for humidity, temperature, absolute pressure, differential pressure, particulate matter, as well as ultrasonic sensors.

Our expertise in developing and manufacturing smart sensors, based on our proprietary MEMS, ASICs, and calibration technologies, enables us to deliver sensor solutions with very low power consumption, very small form factor, and a world class performance, all at competitive pricing.