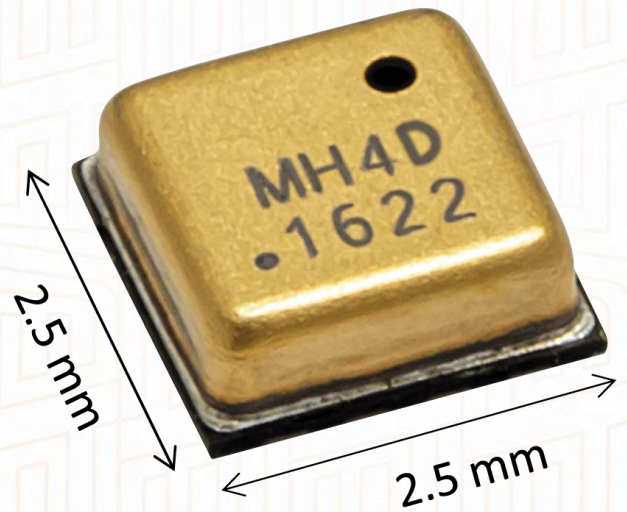


## HUMIDITY & TEMPERATURE SENSORS

*Most Reliable  
Ultra Low-Power*

- 5x lower power (micro-Watt), thanks to state-of-the art ASIC technologies
- 2x longer stability & lifetime, thanks to the proprietary Silicon Carbide (SiC) technology
- Best in-class accuracy in the industry
- Digitally calibrated over a very wide range of humidity and temperature
- Small size and fast response



## Applications

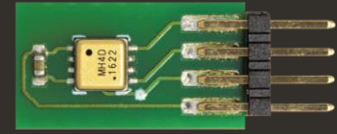
- HVAC systems
- Building automation
- Instrumentation
- Automotive: antifogging, comfort, battery monitoring
- Medical: respiratory systems, ventilators
- Wellness
- Smart homes and appliances

**MoSiC**<sup>®</sup>  
Technology

**INNOVATING SENSORS**

**FOR A BETTER WORLD!**

## MVH4000 SERIES Humidity and Temperature Sensors



The MVH4000 series consists of highly accurate and fully calibrated digital/analog relative humidity and temperature sensors, based on a proprietary Silicon Carbide (SiC) technology for improved reliability. With the field proven best long-term stability, these small, fast response, and ultra-low power micro-watt sensors are a perfect fit for demanding OEM and portable applications. Different accuracy grades are also available to meet your budget targets!

RH Accuracy (typ. max)	± 1.5%   ± 1.8%
RH Response Time	4 sec
Hysteresis (max)	± 1.0%
Temperature Accuracy (typ. max)	± 0.2°C   ± 0.3°C
Temperature Response Time	> 2 sec
Long Term Stability	< 0.1%RH/Yr < 0.03 °C/Yr
Power Supply	1.71 to 3.6 Vdc
Current Consumption	< 0.01 uA (sleep) < 0.62 uA (1Hz, H&T, 14 bits)
Output	Digital I <sup>2</sup> C, 8-to-14 bit
Operating Temp. Range	-40 to 125°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 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 Industrial, Automotive, Medical, and Consumer markets. Our products include sensors for humidity, temperature, absolute pressure, particulate matter, differential pressure, 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.