

MEDIA RELEASE | FOR IMMEDIATE USE

EnviCam[®]-30: The New Multi-Gas Microsensor with Unmatched Selectivity, Ultra-Low-Power Consumption and Self-Calibration

Mont-Saint-Guibert, 9th May 2023 - VOCsSens unveils EnviCam[®]-30, its 1st generation of multi-gas microsensor addressing the request for actionable gas concentration data in Smart Building, Chemical, Agri-food & Recycling market segments. This cutting-edge device offers unparalleled selectivity, long operating lifetime, and a small form factor that sets a new standard in the gas sensing industry.

Gas selectivity

Unlike other gas microsensors which are few selective, EnviCam[®]-30 measures multiple gases at the same time with a high level of accuracy thanks to advanced sensing mechanisms and dedicated algorithms. First detected gases are ammonia (NH₃), formaldehyde (HCHO), carbon monoxide (CO), carbon dioxide (CO₂), nitrogen dioxide (NO₂) and methane (CH₄), with many others under development.

Efficiency by design

Based on patented CMOSEnvi[™] multi-pixel technology, EnviCam[®]-30 consumes almost no energy (below 50 µW for 1 measurement per second) and costs up to 10 times less than its competitors. With its compact dimensions (10 x 5 x 1 mm³), it can be easily integrated into any type of hardware.

Delivering actionable gas concentration data

Moreover, EnviCam[®]-30 dedicated firmware (C library) and container-based software substantially improve the device autonomy. Artificial intelligence-based algorithms perform zero-point adjustments and self-calibration depending on the environmental conditions, delivering actionable insights for maintenance-less applications.

Wide range of applications

EnviCam[®]-30 is used in a variety of industries, including environmental monitoring, industrial gas detection and future medical applications. We can cite energy-efficient ventilation and filtration in Smart Building as well as nitrogen emission control in Agri-Food (e.g. pig and poultry farms) or Chemical industries (pipeline leak detection, processes, EHS).

“With this revolutionary product making the invisible visible, VOCsSens has the ambition to become a game-changing player in the gas microsensor industry”, said **Thomas WALEWYNS, Co-Founder & CEO**. “We are entering a new era of measurement, ensuring a better knowledge of environment and processes to take the right actions as part of sustainable development goals.”

For more information about EnviCam[®]-30 multi-gas microsensors, please visit VOCsSens website: vocsens.com.

About VOCsSens

Benefit from over 20 years of research from the UCLouvain laboratories (ELEN department, ICTEAM) and multiple collaborations, VOCsSens is developing a new concept of environmental camera, EnviCam[®], allowing to see the invisible, these chemical and biochemical molecules surrounding us. The company has developed a manufacturing process, CMOSEnvi[™], fully compatible with the CMOS technology found in the electronic chips of our daily lives. Established in February 2019, it is based at Axis Parc, Mont-Saint-Guibert, Belgium, close to Louvain-la-Neuve Science Park.

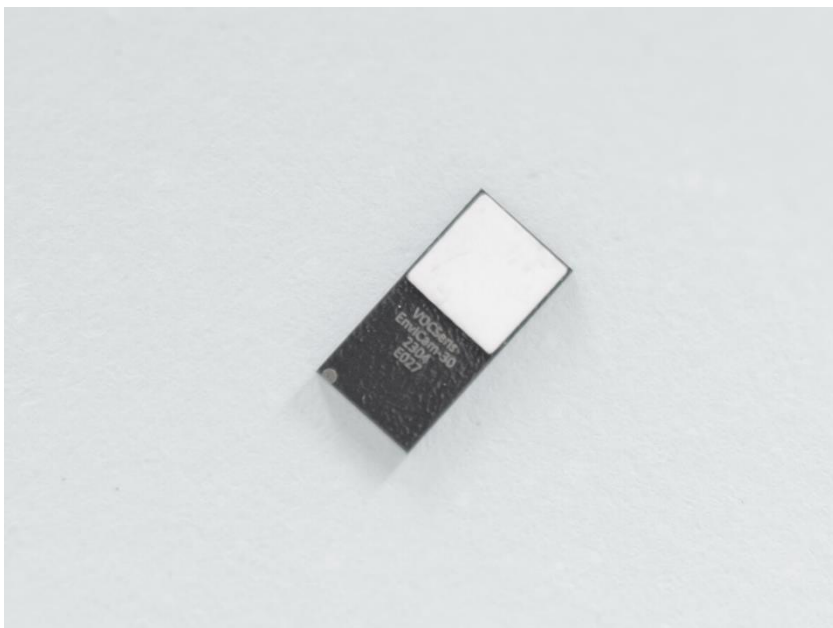
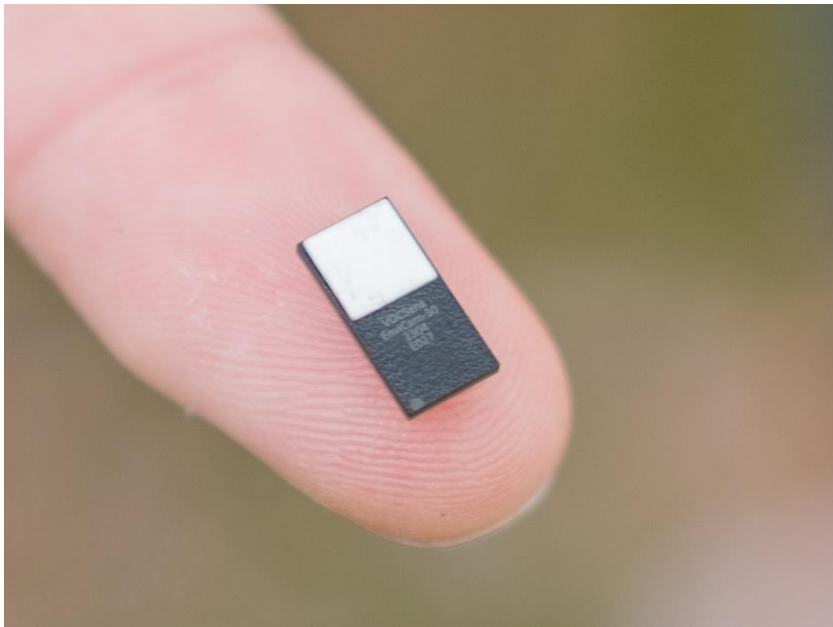
Media contact

Bram SENAVER

bram.senave@vocsens.com

+32 478 88 88 89





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