



eLichens Launches the First Modular & Connected Air Quality IoT Device for Indoor Wellbeing and Energy Efficiency

October 03, 2018 -- eLichens, a leading designer of patented gas sensors and the first comprehensive air quality analysis and prediction platform today announces the release of its modular real time IAQ, Indoor Air Quality, connected device.

eLichens modular IoT device seeks an improved customer experience in an eco-aware context where Indoor one's wellbeing meets energy efficiency, leading to unique user experience. In fact, the impact of air quality on health and life comfort is well established. In modern societies, people spend more than 80 percent of their time indoors. Therefore, indoor air quality monitoring is of great importance to human health. Concurrently, there is a growing challenge for innovative solutions that lay the foundation for more efficient indoor environment by developing energy-saving technologies.

To tackle these challenges, eLichens focused its effort to design and introduce a real-time modular IAQ solution that presents the advantage of a smart scalable system allowing seamless integration of various sensing technologies. The connected device is an end-to-end solution enabling measurement of CO₂ - Carbon Dioxide, PM - Particulate matter, VOC – Volatile Organic Compound, ambient temperature, light, relative humidity and level of noise (additional sensors are optional: NO₂ - Nitrogen Dioxide, O₃ - Ozone and CH₂O - Formaldehyde).

Using encrypted wireless sensor networks, the IAQ solution can be linked to local gateway to connect to the external world for ubiquitous access of data.

eLichens IAQ device offers the advantage of being battery operated, auto-calibrated with drift compensated versus aging, temperature & humidity with no maintenance or post intervention needed.

This device takes full control of the ventilation system and any other Smart Home/Building connected IoT devices. It interfaces with eLichens patented hyper local outdoor air quality services (10 meters precision at street level) allowing smart & optimized energy efficiency.

*"We have worked hand in hand with **Daikin** to introduce a real time connected Indoor Air Quality device that takes advantage of the eLichens CO₂ NDIR patented, auto-calibrated, ultra-low power (<< 0.1mW) and high performances sensor, and the deep expertise of Daikin in energy efficiency for air conditioning and ventilation systems. This partnership resulted in a much needed and industrial expert IoT solution,"* said Wahid Issa, chief executive officer of eLichens.

"We have been excited working with eLichens engineers where the specification of this complete system on device meet Daikin requirements, and could become a powerful tool for indoor environment control," said Dr. Piao, President, Daikin Open Innovation Lab Silicon Valley.

About eLichens (www.eLichens.com)

Created in December 2014, eLichens is a start-up with a mission to help individuals digitize their environment. The company relies on a portfolio of patents, know-how and skills which enable it to develop



and market complete sensor and data services solutions to address the industrial, smart home, smart city and consumer markets. eLichens has its headquarters in Grenoble and offices in California.

About Daikin (www.daikin.com)

Daikin has been a global leader in the air conditioning industry for over 90 years. Our products are sold in over 140 countries and have innovation centers around the globe. Today, we are extending our reach to Silicon Valley to collaborate with some of the brightest minds in new technology to create the clean air solutions of tomorrow and help deliver real change by building a more sustainable, comfortable and healthier society that elevates our quality of life.

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