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Talkpool Utilizing LoRaWAN® Connectivity to Provide Superior Air Quality Monitoring and HVAC Optimization

Switzerland based company Talkpool, started 20 years ago as a company aimed to service networks and enable solutions to allow people and things alike to communicate efficiently and in 2014, made the step over to the emerging Internet of things (IoT) industry. Thanks to Talkpool



and the Internet of Things, there has been a revolution that has made it easier than ever to monitor CO₂ levels indoors and to implement automatic warning messages to protect consumers from harmful air quality. Indoor air quality solutions are being deployed more and more frequently in office spaces and schools, contributing to an indoor environment that promotes enhanced well-being and increased productivity.

Smart Air Quality Solution

92% of our time on average is spent indoors, which makes the

monitoring of indoor air quality of utmost importance for our health and well-being. Talkpool's LoRaWAN® solution is designed to notify building occupants with an automated warning message when the indoor air quality passes a critical threshold, with an option to pair with a smart ventilation system for immediate corrective action. One of the greatest values of Talkpool's solution is that it has a synergistic effect on existing building management systems, by enhancing the existing major BMS systems with data and intelligence in an easy way.



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Talkpool has been implementing a suite of LoRaWAN® Sensors with coverage provided by TEKTELIC's LoRaWAN® Gateways in their customers homes to provide a number of benefits such as:

Heating/cooling optimization

- » Stable indoor climate
- » Self-learning AI
- » Energy Reduction

Improved Air Quality

- » Control of CO2, temperature & Humidity

Improved Health

- » Control of particles
- » Air-cleaner & filter operation



Talkpool has successfully implemented LoRaWAN® air quality monitoring sensors and TEKTELIC's best in class KONA Micro gateways to provide an important End-to-End IoT solution to its customers. The KONA Micro Gateway is market-leading 8-channel LoRaWAN® Gateway solution which has the capacity to simultaneously send and receive hundreds of messages every second from the devices deployed in its vicinity. Equipped with a 4-6-hour battery backup, the KONA Micro Gateway will continue to operate even in the event of power loss to the main site, so residents can continue to be protected at all times.

To learn more about TalkPool IoT solutions please visit <https://talkpool.com/internet-of-things/>

To learn more about TEKTELIC's complete End-to-End IoT solutions, please visit <http://www.tektelic.com> or contact info@tektelic.com
