

New solution for smart buildings: Alpha-Omega Technology and Hager Safety present LoRaWAN smoke detectors

By integrating LoRaWAN technology, the TG563A smoke alarm seamlessly integrates into existing IoT infrastructures and opens up new possibilities for remote monitoring and maintenance for building managers and owners.

Schimberg and Berlin, 7 May 2025 – [Alpha-Omega Technology GmbH & Co. KG](#), operator of the [iot-shop](#), is supporting the market launch of the TG563A networked smoke alarm from [Hager Safety Deutschland GmbH](#). The device was developed for professional use in the housing industry and building automation and uses LoRaWAN wireless technology. The detector is compatible with all available LoRaWAN gateways and IoT platforms such as ThingsBoard and Datacake. With the IoT integration of a smoke alarm, Hager Safety is underlining the trend towards the cross-sector use of LoRaWAN networks in smart buildings and urban districts. [iot-shop](#), owned by IoT company Alpha-Omega Technology, is the largest online shop for LPWAN solutions in Europe. The partnership demonstrates how industry and IoT ecosystems are increasingly converging by combining Hager Safety's product expertise with the reach of [iot-shop](#). The partners will present the TG563A smoke alarm at the [IoT Solutions World Congress](#) in Barcelona from 13 to 15 May 2025 to the trade public. Pre-orders will also be possible in the [iot-shop](#) from this date.

Today, all federal states in Germany stipulate the use of smoke detectors in living spaces in their state building regulations. The requirements for installation, monitoring and maintenance of the devices are increasing. This is driving demand for intelligent solutions in this area. At the same time, LoRaWAN has proven itself as a scalable infrastructure for digital building applications. LoRaWAN stands for Long Range Wide Area Network. The wireless standard for low-energy networks continuously transmits sensor data, even over long distances. LoRaWAN sensors are simple in design. This makes them inexpensive and flexible to use. The batteries last up to ten years. The solution is ideal as infrastructure technology for locally limited projects such as smart buildings.

TG563A utilises existing LoRaWAN infrastructure

Once set up, a LoRaWAN network allows various devices to be integrated – from energy and water meters to intelligent heating control. The TG563A uses the existing structure, thus enabling security without additional effort. LoRaWAN is already available in many

buildings today for reading and digitising consumption data. The TG563A uses this network, thus avoiding duplicate investments. If no LoRaWAN network is available, it can be easily installed without interfering with the building structure. LoRaWAN technology enables remote inspection without entering the home. This reduces operating costs, minimises disruption for residents and simplifies processes for property management. Among other things, the device automatically detects dismantling or malfunctions. This means greater security for large public buildings where decentralised control would otherwise be difficult to achieve. The TG563A is a low-maintenance and certified solution for secure networking. The detector complies with all relevant legal standards, such as the European product standard for smoke alarms and the EU directive for radio equipment. It also has LoRa Alliance certification for battery-powered end devices.



The TG563A smoke alarm seamlessly integrates into existing IoT infrastructures thanks to the integration of LoRaWAN technology, opening up new possibilities for remote monitoring and maintenance for building managers and owners (graphic: Alpha-Omega Technology).

Partnership for smart buildings

Hamid Karroum, Head of Sales at Hager Safety Germany, explains: 'We have been successfully marketing various smoke alarms and different radio protocols for many years. Our solutions are in use millions of times over. With the new TG563A and its LoRaWAN technology, we are now closing a specific gap in our portfolio.'

Alpha-Omega Technology complements the solution with its many years of expertise in the field of low power wide area networks (LPWAN). Through the *iot-shop*, the company not only ensures visibility for the new product in the IoT industry, but also offers users project support and advice. Managing Director Jan Bose says: 'Our partnership with Hager Safety shows how classic security technology can be integrated into an intelligent and connected infrastructure. The combination of Hager's product expertise and the reach of the *iot-shop* is a prime example of the convergence of industry and IoT ecosystems.'

The TG563A has the following certifications:

- EN 14604:2005/AC:2008: European product standard for smoke alarms, which specifies basic requirements for construction, performance and test procedures.
- LoRaWAN v1.0.4: Lora Alliance Certification Programme for battery-powered end devices
- RED 2014/53/EU: EU directive for radio equipment that ensures that radio devices meet basic requirements for health, safety and electromagnetic compatibility