wanwave

Panic Button System

In environments where safety and rapid emergency responses are critical, such as hospitals, schools, workplaces, and public spaces, panic button systems provide individuals with a simple and effective means of signaling for help.

wanwave offers a solution that provides secure, reliable, and long-range communication capabilities.
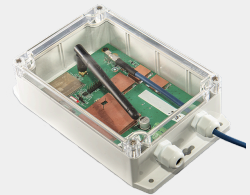
Key aspects of using **wanwave** for Panic Button Systems:

1. **Wide Coverage and Long-Range Communication:** **wanwave** supports communication over large areas, ensuring that panic buttons are functional across expansive facilities or outdoor environments. Its range of up to 10 kilometers ensures that emergency alerts are transmitted reliably, regardless of the distance from the central monitoring system.

2. **Interference Resistance:** Panic button systems powered by **wanwave** operate on a highly secure, interference-resistant frequency. This ensures that even in areas with high radio traffic or electromagnetic interference, the panic button signal reaches the necessary authorities without delay or disruption.

3. **Secure Communication:** The **wanwave** protocol ensures the highest level of security by operating on a private, self-contained network that is immune to external attacks and disruptions. This makes it ideal for environments where data security is of paramount importance, such as healthcare facilities or corporate environments.

4. **Cost-Effective and Scalable**: **wanwave's** panic button system is scalable, making it suitable for any size of facility, from small offices to large campuses or public spaces. Additionally, its use of the license-free frequency spectrum minimizes operational costs, allowing for an affordable yet reliable emergency response solution.

Hardware Components Used in this Solution

WIRELESS CALL BUTTON

WNG-20 NETWORK GATEWAY

About the wanwave Network

wanwave offers the first true end-to-end Massive IoT ecosystem comprising a highly efficient & secure communication protocol, and a wide range of end-devices to serve any application or use-case:
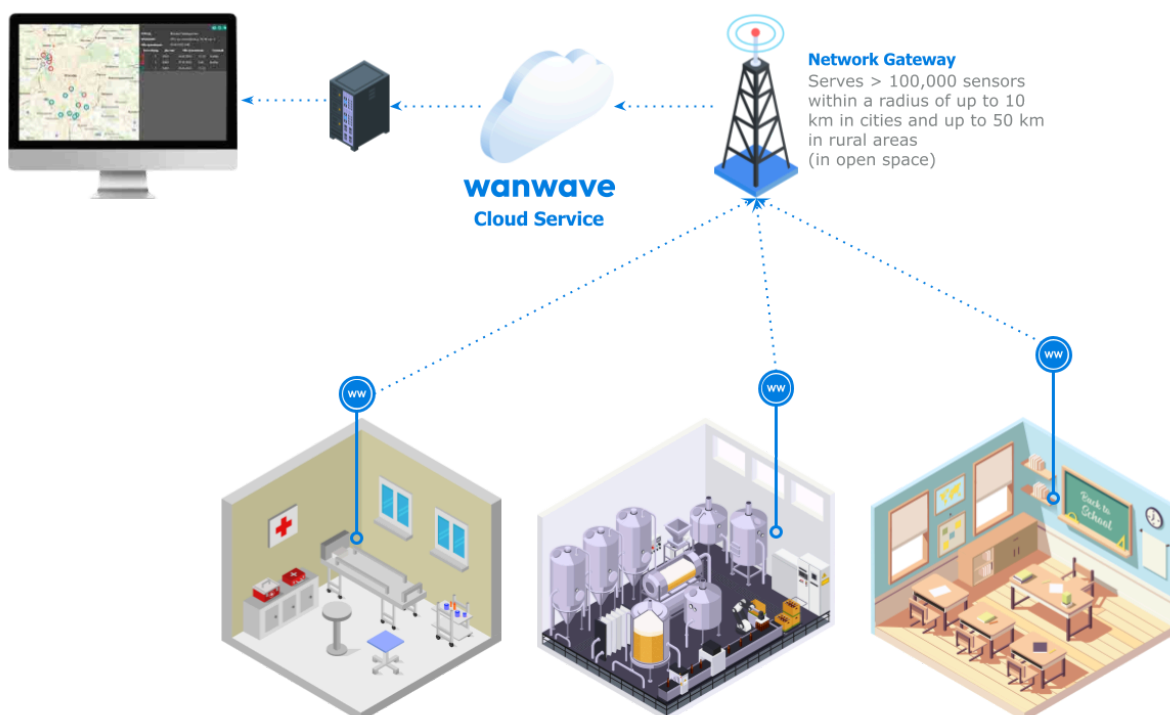
Learn more at https://wanwave.com.

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5. **Integration with Security Systems:** **wanwave** seamlessly integrates with existing security systems, including video surveillance cameras, access control systems, and alarm monitoring platforms. Integration enables centralized management and monitoring of security events, streamlines incident response procedures, and enhances overall situational awareness for security personnel.

Mode of Operation

wanwave's panic buttons are maintenance, can work from stationary locations or moving objects, and can be produced in various form factors including "emergency" buttons. The button can be used in multiple scenarios and use cases such as reporting a threat in a classroom, ordering repetitive products, calling a nurse to a patient's bed, or stopping a conveyor belt.

The transmitted information is received by the network gateways which automate the reception and transmission of messages between end devices and the **wanwave** server.

wanwave
Cloud Service

Network Gateway
Serves > 100,000 sensors within a radius of up to 10 km in cities and up to 50 km in rural areas (in open space)

Learn more at wanwave.com