

IMPLEMENTATION EXAMPLE WITH TOPOLOGY

Physical security of server/technology rooms -
ingeniously simple to detect errors before damage occurs

Kentix ist Mitglied im

BSKI 

Bundesverband für den Schutz
Kritischer Infrastrukturen e. V.

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The requirement

The constantly growing digitalisation places special and important requirements on companies and organisations to secure critical infrastructures. In order to meet these requirements sufficiently, the resource-saving physical monitoring of critical infra-structures such as server or technical rooms must be established in order to detect errors at an early stage before damage and costly failures occur.

Possible sources of error, sabotage or imminent system failures (e.g. due to fire, leakage, etc.) are to be reliably detected and alerted automatically. All data are clearly monitored in a dashboard from any location.

Installation and operation should be cost-efficient and simple. Open interfaces allow easy integration into third-party systems. Free scalability, modularity and cost-effective, simple maintenance must be part of the solution concept.

Die Kentix Systemlösung

The Kentix SmartMonitoring StarterSet, consisting of an AlarmManager-PRO, a Multi-Sensor-LAN-RF and a MultiSensor-DOOR, monitors undesirable environmental conditions and risks in the room to be protected.

The MultiSensor-LAN-RF reliably monitors up to 20 square metres for temperature, air humidity, early fire detection, movement, sabotage, etc. The MultiSensor-LAN-RF is also equipped with an alarm system. In addition, the MultiSensor-LAN-RF has an encrypted ZigBee radio that makes it possible to conveniently connect radio-based expansion sensors, such as the MultiSensor-DOOR, to the system.

The MultiSensor-DOOR replaces classic door contacts and is used to detect intrusion attempts on doors, windows and movable objects. In addition, it provides further sensors for climate monitoring of temperature, humidity and dew point.

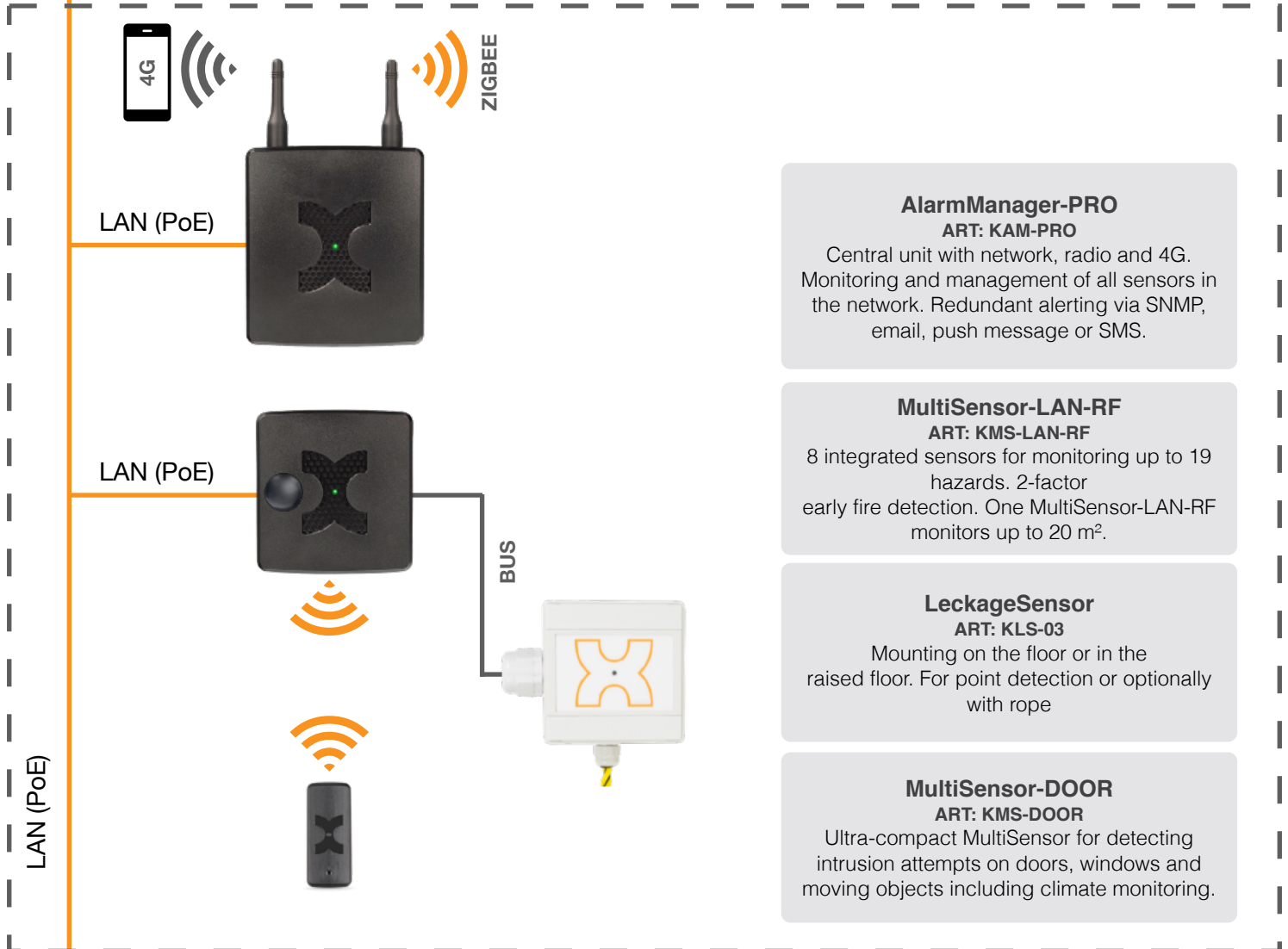
For leakage monitoring, a leakage sensor is connected to the MultiSensor-LAN-RF, which is suitable for point detection. Optionally, it

can also be equipped with a 10 m or 20 m sensor rope to monitor larger areas for leaks. The Kentix AlarmManager takes over the management of the connected sensors and the monitoring of all determined values. If threshold values are exceeded, it sends alarms to users via SNMP, email, push message and redundantly via SMS.

Optionally, the Kentix online IP access control system takes over access control, with each individual locking point always online. This means that access documentation and administration can be carried out centrally, e.g. via a web front-end, conveniently and in real time.

The simple, modern and resource-saving operation is realised by KentixOS. KentixOS is the integrated, freely scalable and modular IoT software platform which, in addition to the web front ends, provides open interfaces for easy integration into third-party systems (ReST-API, WebHooks, SNMP, LDAP, etc.). At the same time, KentixOS is the basis for further AI analyses and visualisations.

Environmental monitoring server/technology



AlarmManager-PRO
ART: KAM-PRO

Central unit with network, radio and 4G. Monitoring and management of all sensors in the network. Redundant alerting via SNMP, email, push message or SMS.

MultiSensor-LAN-RF
ART: KMS-LAN-RF

8 integrated sensors for monitoring up to 19 hazards. 2-factor early fire detection. One MultiSensor-LAN-RF monitors up to 20 m².

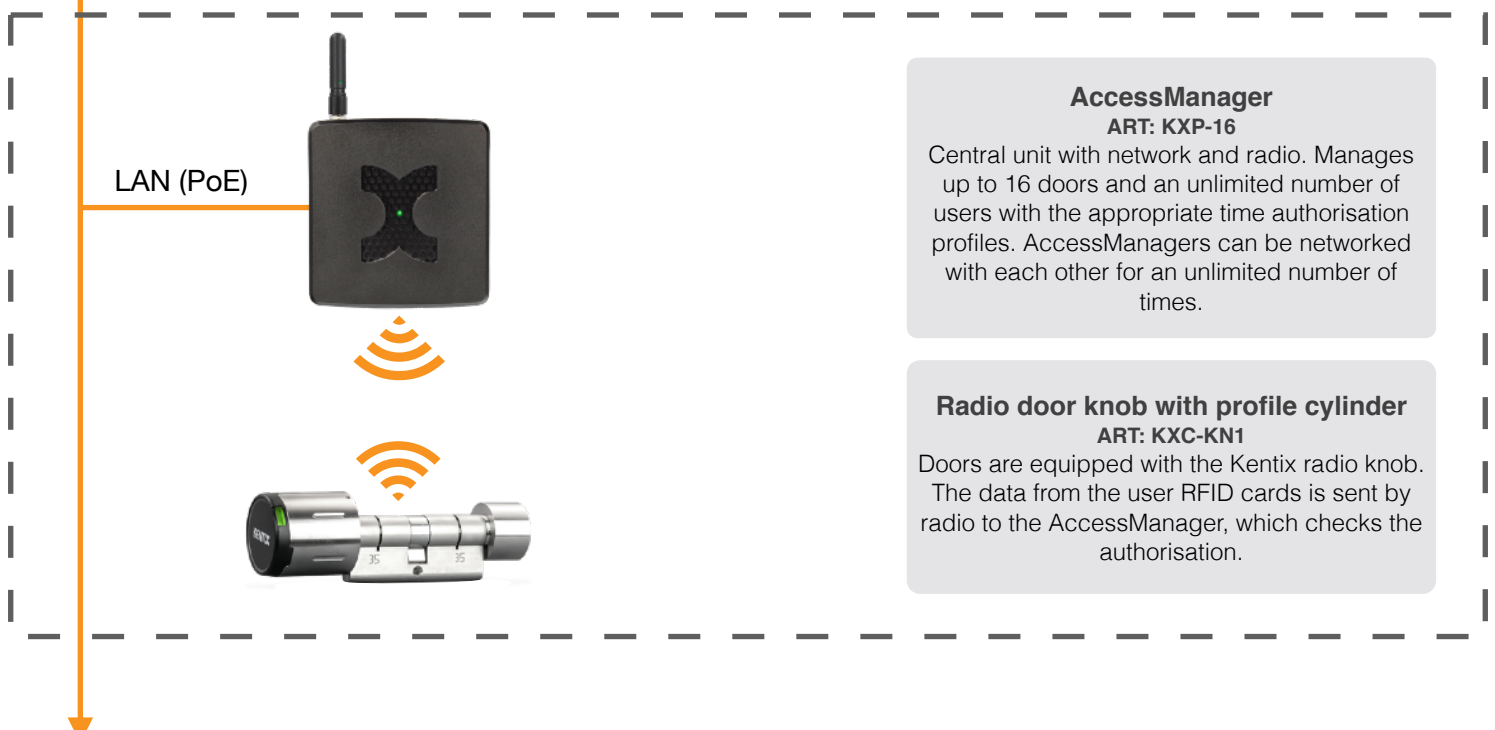
LeckageSensor
ART: KLS-03

Mounting on the floor or in the raised floor. For point detection or optionally with rope

MultiSensor-DOOR
ART: KMS-DOOR

Ultra-compact MultiSensor for detecting intrusion attempts on doors, windows and moving objects including climate monitoring.

Optional: IP access control server/technology room



AccessManager
ART: KXP-16

Central unit with network and radio. Manages up to 16 doors and an unlimited number of users with the appropriate time authorisation profiles. AccessManagers can be networked with each other for an unlimited number of times.

Radio door knob with profile cylinder
ART: KXC-KN1

Doors are equipped with the Kentix radio knob. The data from the user RFID cards is sent by radio to the AccessManager, which checks the authorisation.