

EXECUTION EXAMPLE WITH TOPOLOGY

Securing a data centre with 300 m² and technical ancillary rooms



Securing a computer centre with 300 m² and technical ancillary rooms

The requirements

A data centre with a large number of server racks is to be monitored for physical hazards such as excess temperature, high humidity, carbon monoxide (early fire detection) and more.

The monitoring is done by several sensors, which are combined in a

central system. Adjacent technical rooms are also to be monitored.

The UPS and air-conditioning systems can be integrated via existing alarm contacts. In addition, the solution should offer interfaces to higher-level monitoring systems.

The Kentix system solution

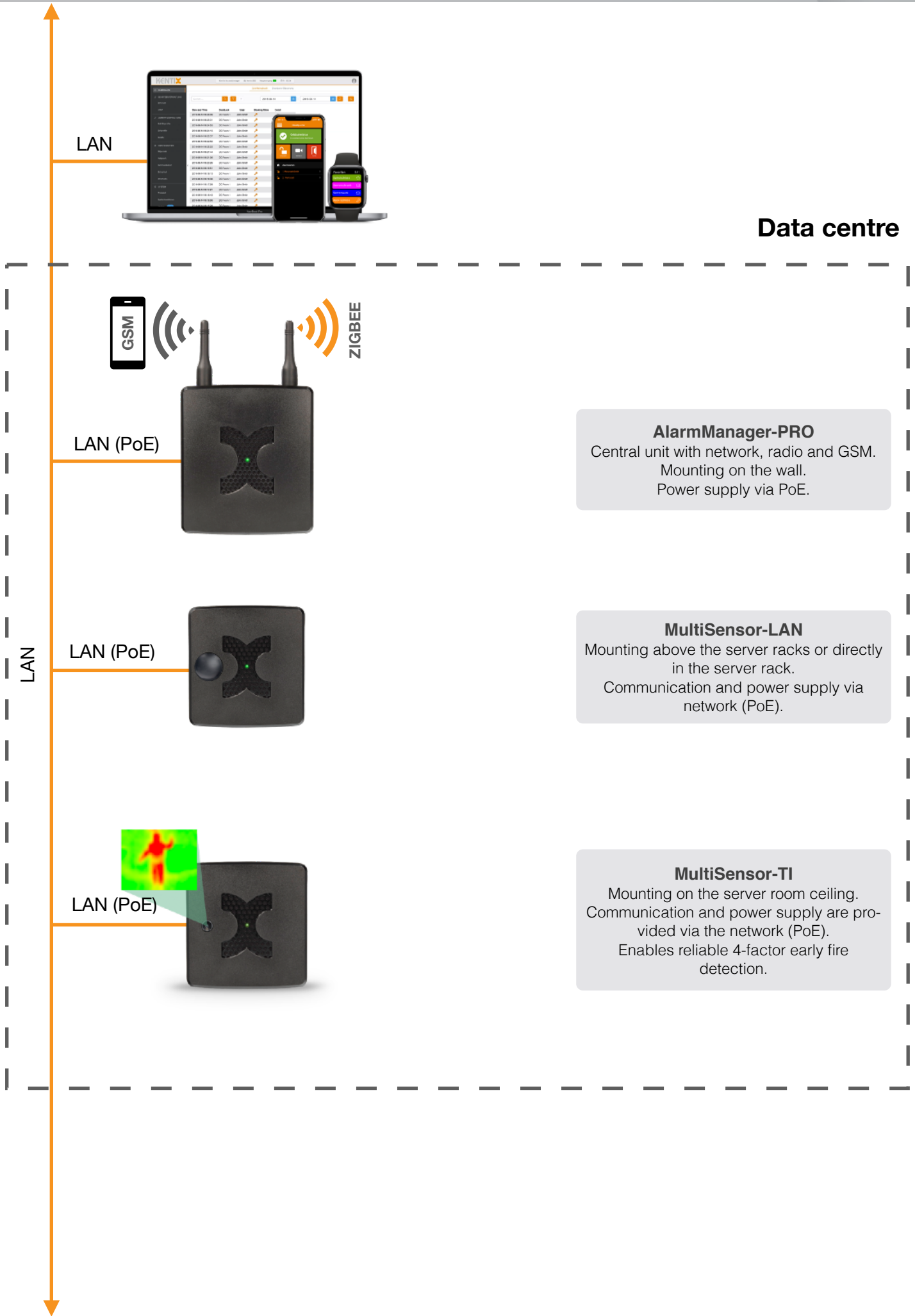
To meet these requirements, the data centre requires a Kentix Alarm-Manager-PRO and several Multi-Sensor-LANs. Optionally a reliable 4-factor early fire detection can be set up with a MultiSensor-TI.

The MultiSensors are connected to a PoE switch via the existing infrastructure and fastened to the server room ceiling with mounting brackets. All measured values are sent to the AlarmManager via the network. One MultiSensor covers an area of up to 20m².

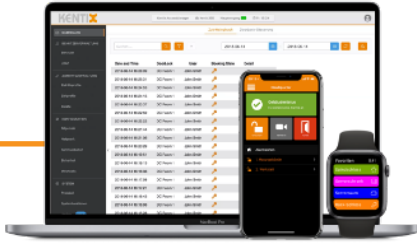
A MultiSensor-TI is used in the technical rooms, which is also mounted on the ceiling. A leakage sensor is connected to the MultiSensor-TI to monitor for potential leaks.

External systems such as air-conditioning and UPS systems are included in the monitoring via an I/O module.

Here too, the UPS can be monitored for increased surface temperatures by a MultiSensor-TI.



LAN



Data centre



LAN (PoE)



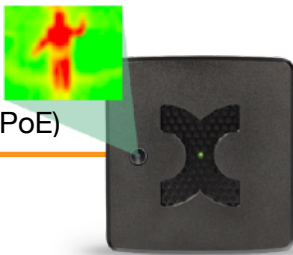
AlarmManager-PRO
Central unit with network, radio and GSM.
Mounting on the wall.
Power supply via PoE.

LAN (PoE)



MultiSensor-LAN
Mounting above the server racks or directly
in the server rack.
Communication and power supply via
network (PoE).

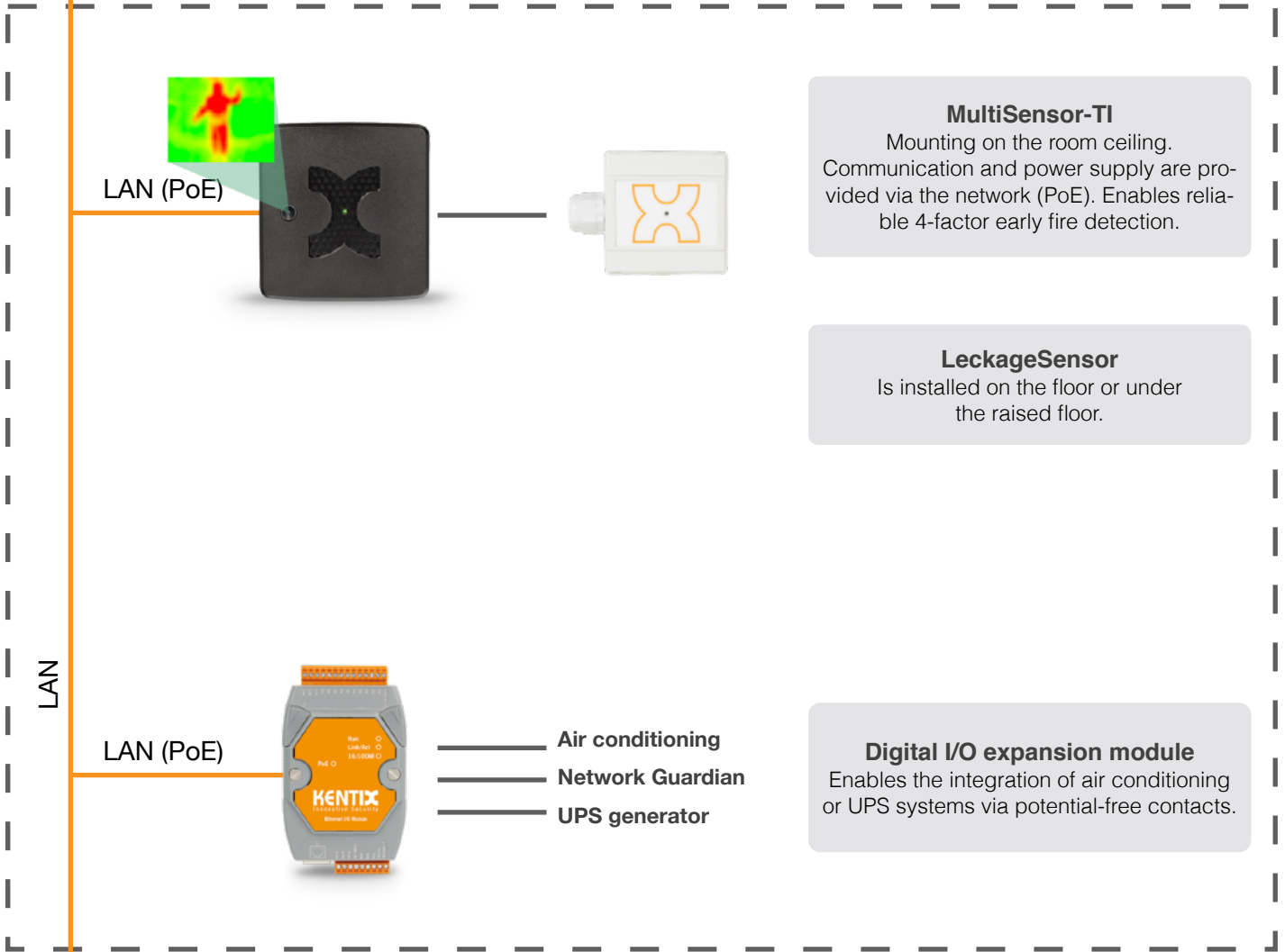
LAN (PoE)



MultiSensor-TI
Mounting on the server room ceiling.
Communication and power supply are pro-
vided via the network (PoE).
Enables reliable 4-factor early fire
detection.

LAN

Technical room



MultiSensor-TI
Mounting on the room ceiling. Communication and power supply are provided via the network (PoE). Enables reliable 4-factor early fire detection.

LeakageSensor
Is installed on the floor or under the raised floor.

Digital I/O expansion module
Enables the integration of air conditioning or UPS systems via potential-free contacts.