KENTIX
Innovative Security

360° Physical IT Securtiy
Detects over 35 threats - all in one system - ingeniously simple
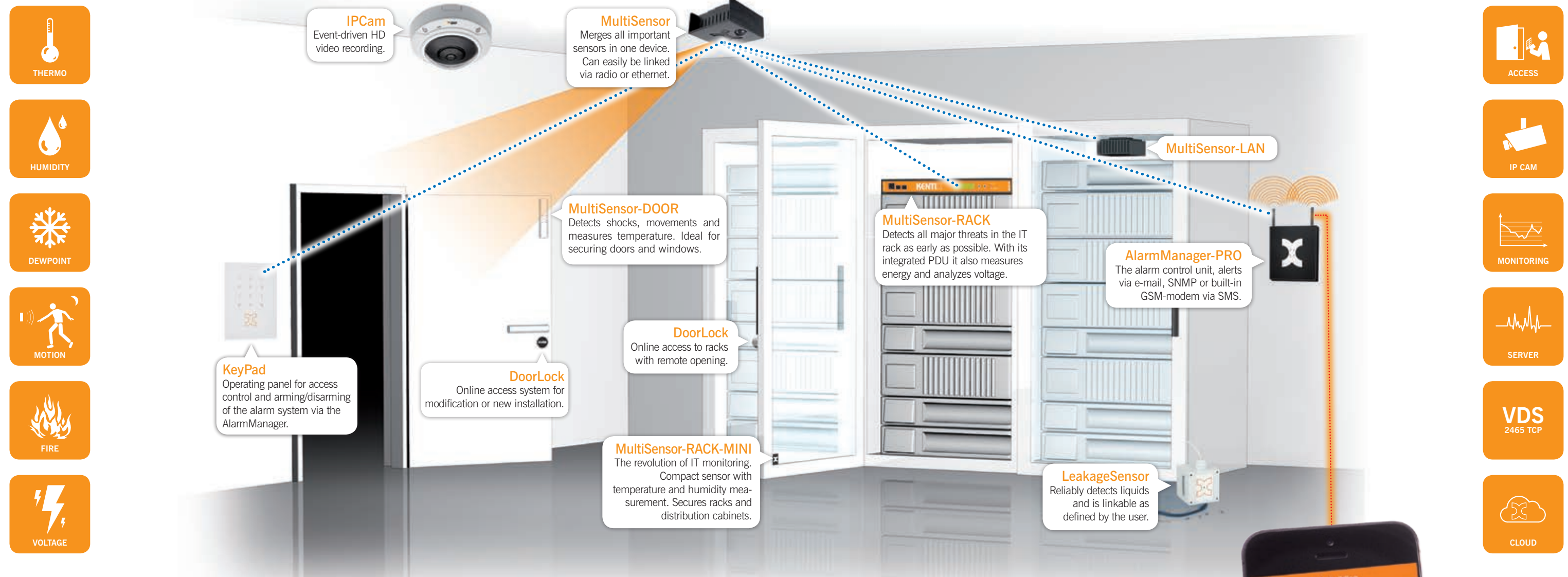
CLIMATE

FIRE

BURGLARY

ACCESS

VIDEO

CLOUD

- **Ingeniously simple due to Kentix MultiSensor® technology**
  - >Risk Mitigation !!! at an optimal price
  - >Fast installation - Real time alerting
  - >Fullfills compliance requirements and ISO27000
- **Simple integration into existing network monitoring environments**

**Kentix US
1-844-KENTIX 2**

+ Server Room + Data Center + Infrastructure + Office Sites + Production + Warehouse +

kentix.com/us

One device that detects all major threats in the server room and rack – The Kentix MultiSensor®

KENTIX
Innovative Security

THERMO

HUMIDITY

DEWPOINT

MOTION

FIRE

VOLTAGE

ACCESS

IP CAM

MONITORING

SERVER

VDS
2465 TCP

CLOUD

IPCam
Event-driven HD video recording.

MultiSensor
Merges all important sensors in one device. Can easily be linked via radio or ethernet.

MultiSensor-LAN

MultiSensor-DOOR
Detects shocks, movements and measures temperature. Ideal for securing doors and windows.

MultiSensor-RACK
Detects all major threats in the IT rack as early as possible. With its integrated PDU it also measures energy and analyzes voltage.

AlarmManager-PRO
The alarm control unit, alerts via e-mail, SNMP or built-in GSM-modem via SMS.

DoorLock
Online access to racks with remote opening.

KeyPad
Operating panel for access control and arming/disarming of the alarm system via the AlarmManager.

DoorLock
Online access system for modification or new installation.

MultiSensor-RACK-MINI
The revolution of IT monitoring. Compact sensor with temperature and humidity measurement. Secures racks and distribution cabinets.

LeakageSensor
Reliably detects liquids and is linkable as defined by the user.

Effective protection against physical risks in IT and server rooms.

The Kentix MultiSensor® merges all the important basic physical sensors in one unit. In combination with the wireless technology (ZigBee) it results in one of the most effective systems for IT monitoring. The MultiSensor (KMS) is also available with LAN connection as an alternative to the wireless solution and can be directly connected to a network with the Kentix AlarmManager (KAM).

The installation and operation is quite easy and can be done with conventional patch cables without clamping.

Protecting your IT against the most common risks:
- Environmental disruption
- Human errors
- Physical theft
- Sabotage

Benefits at a glance:
- Threat detection - rapid response times, low costs
- Lower staff costs due to automatic monitoring
- Reduce staffing requirements - lower liability and risk
- Lower operating costs due to remote monitoring
- Low investment costs - easy and hassle-free installation
- ROI within 1 year - in prevention and security assurance

Easy installation and low system costs with an innovative „All In One" solution.

All MultiSensor data is collected and evaluated in the Alarm Manager. The AlarmManager also monitors the sensor network and cycles through error messages and system conditions. An integrated GSM modem transmits alarm messages.

Responsible staff and managers are informed in real time about any error conditions. Messages are sent as SMS, e-mail or SNMP traps. The AlarmManager can be controlled remotely from any mobile phone with simple SMS commands in order to get status updates or to arm and disarm the system.
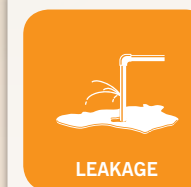
Commands are protected by password and phone number.

Available on the App Store

ANDROID APP ON Google play

One device that detects all major threats in the server room and rack – The Kentix MultiSensor®

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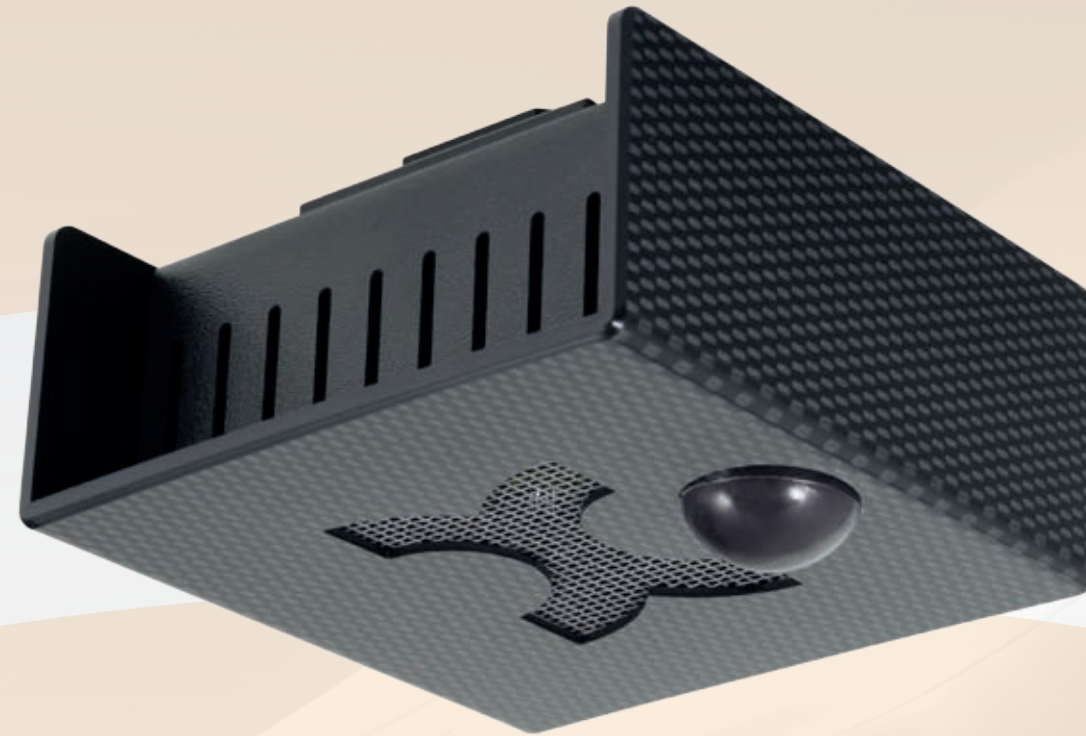
Temperature
THERMO
- Monitoring of temperature
- Control of cooling or heating

Humidity
HUMIDITY
- Monitoring of humidity
- Monitoring of air conditioning

Dew Point
DEWPOINT
- Monitoring of dew point
- Avoiding condensation

Power Supply
VOLTAGE
- Monitoring of external power supply
- Bridging and reporting of power failure

Infrared motion detector
MOTION
- Fast motion detection
- Reliable detection of unauthorized people

Carbon Monoxide (CO)
FIRE
- Fire detection via high-sensitivity CO sensor
- Early detection of fires

External signal inputs
LEAKAGE
- Allows connection of external dry contacts
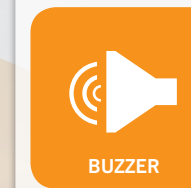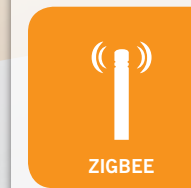- Door contacts, alarm messages from external systems

External alarm I/O outputs
EXT-IN-OUT
- Control of external devices such as alarm sirens, flashing lights
- Remote control of external devices

Acoustic signalization
BUZZER
- Integrated buzzer for acoustic alarm

ZigBee wireless transmission
ZIGBEE
- Encrypted transmission of sensor data to the AlarmManager
- Long range and security through mesh networking

Sabotage monitoring
SABOTAGE
- Continuous monitoring for tampering and sabotage of MultiSensor and AlarmManager

Fulfills IT COMPLIANCE

Kentix DoorLock - all-in-one access control system with video recording

Find out how easily the Kentix DoorLock is integrated and crosslinked

KENTIX
Innovative Security

Web-based, no external software

Optionally via cloud

KENTIX360

Secure remote opening via browser or Kentix Cloud

More than 1.500 doors and up to 2.000 users

Available on the App Store

Android app on Google play

LAN (PoE)

AccessPoints are linked with each other

Booking triggers IP camera which records a sequence of pictures

Up to 99 AccessPoints are linkable with each other

Simply mount the AccessPoint on the wall or ceiling, it is only 90x90x45mm in size!

Radio 868Mhz

Up to 16 doors per AccessPoint

Up to 16 doors per AccessPoint

Up to 16 rack doors per AccessPoint

The outstanding feature of the Kentix DoorLock is its easy integration into the existing IT environment. Several AccessPoints can be connected to one system and be centrally managed by the Master AccessPoint. Therefore, assigning user and time profiles is simple, even in larger systems. When the network is down, every AccessPoint self-sufficiently determines whether access will be granted or denied.

DoorLock-DC

DoorLock-HC

The Online Door Knob with integrated radio is available for inner or outer doors and enables unlocking of a door with an RFID medium. The according profile cylinder is compatible with standard DIN mortise locks and can easily replace the existing cylinder. The advantage is that the cylinder works offline as well as online and therefore, a secure authentication is granted at all times.
As an online half cylinder, it is also suitable for IT cabinets.

DoorLock-LE

The Online Door Lever can be mounted in merely all standard doors without wiring or the need for special tools. Just like the Online Door Knob it can be interconnected and integrated via radio (868 MHz) into the Kentix portfolio. Offline use as a stand-alone operation is also possible. The Door Lever offers permanent unlocking for a predefined timeframe and a very long battery life (up to 8 years with only one battery).

AccessPoint

The AccessPoint contains the online intelligence. Equipped with a web server, it manages all access profiles and users. The key feature is that virtually as many AccessPoints as desired can be linked to a large and decentralized access system.

360° monitoring of the complete infrastructure with only one system and few system components.

KENTIX
Innovative Security

Technology container

External sites

Data center

Technical operation rooms

Offices and meeting rooms

Infrastructure and supply rooms

Control rooms

Generator rooms

Environmental monitoring
It is not a lot of use to only secure single parameters of a critical infrastructure. The Kentix MultiSensor® technology monitors all critical environmental parameters and alerts immediately when a threat is detected.

Early fire detection
Detecting fire or smoldering fire at an early stage is essential in order to avoid high damage. Kentix MultiSensors measure fumes even at very low concentration and alert at an early stage.

Access control
Broad and cross-linked access control systems often fail due to high costs. Kentix access control systems are budget friendly. They consist of few components, are easily upgradeable and incorporate themselves into any IT environment.

Trespassing and sabotage protection
Trespassing and sabotage by perpetrators on the outside or on the inside often lead to outages and high costs. With Kentix monitoring solutions, even very small functional units can easily and independently be monitored.

System components

Device	AlarmManager-PRO	AlarmManager-BASIC	MultiSensor-LAN-RF	MultiSensor-LAN
Type	KAM-PRO	KAM-BASIC	KMS-LAN-RF	KMS-LAN
Function	GSM-alarm and control center for MultiSensor, KeyPad, Accessoires	GSM-alarm and control center for MultiSensor, KeyPad, Accessoires	Multifunctional sensor with Ethernet and ZigBee radio as repeater	Multifunctional sensor with Ethernet
Room / facility size	up to 2000m²/21000 sq ft	up to 200m²/2100 sq ft	200m², IT-Rack/2100 sq ft	20m², IT-Rack/210 sq ft
Number of connectable MultiSensors	100	10 (RF)	10 (RF)	-
Configuration	PC-Software, Web (Windows, Mac, Linux)	PC-Software, Web (Windows, Mac, Linux)	Web-Server AlarmManager	Web-Server AlarmManager
Smartphone App	✔	✔	✔	✔
Built-in web-server	✔	✔	✔	✔
Server Monitoring (live-check)	✔	✔	✘	✘
Stand-Alone without AlarmManager	✘	✘	✘	✔
IP-Video camera trigger	✔	✘	✔	✔
SMS alarming (alarm, remote-control)	✔	✔	✘	✘
E-Mail alarming	✔	✔	✔	✔
VDS 2465-S2 alarming (TCP)	✔	✘	✘	✘
Datalogger with long-term storage	✔	✔	✔	✔
SNMP Trap (V2/V3)	✔	✔	✔	✔
SNMP MIB (V2/V3)	✔	✔	✔	✔
Alarm output with relay	2	2	✘	✘
Alarm output with open-collector	✘	✘	2	2
External alarm input (for dry contact)	1	1	2	2
Connection for leakage sensor	✔	✔	✔	✔
PoE (Power over Ethernet)	✘	✘	✔	✔
External power supply	✔	✔	✔	✔
Integrated UPD	✔	✔	✘	✘
LAN connection (10/100Mbit, IP-V4/V6)	✔	✔	✔	✔
ZigBee (Mesh Radio)	✔	✔	✔	✘
Kentix system socket	✔	✔	✔	✔
Sabotage control	✔	✔	✔	✔
Sensor - Temperature (0-99°C)	-	-	✔	✔
Sensor - Rel. Humidity (0-100%)	-	-	✔	✔
Sensor - Dew Point (°C)	-	-	✔	✔
Sensor - Carbon monoxide (CO >20ppm)	-	-	✔	✔
Sensor - Motion (PIR 360°, 12m)	-	-	✔	✔
Sensor - Vibration (vibration)	✔	✔	✔	✔
Voltage control	✔	✔	✘	✘
Power distribution unit switchable (PDU)	✘	✘	✘	✘
Power measurement (Consumpt., analysis)	✘	✘	✘	✘
RFID (Mifare®, Legic, Hitag)	✘	✘	✘	✘
Size (L x W x H in mm)	130 x 120 x 45	130 x 120 x 45	90 x 90 x 45	90 x 90 x 45

Device	MultiSensor-RACK	I/O Module	MultiSensor-RF	MultiSensor-DOOR	MultiSensor-RACK-MINI	KeyPad-Touch
Type	KMS-RACK	KIO7052/53	KMS-RF	KMS-DOOR	KMS-RACK-MINI	KKPT
Function	Multifunctional sensor with Ethernet and intelligent power unit	Extension module for external alarms	Multifunctional sensor with ZigBee Radio	Multifunctional sensor for detection of unauthorized access	Multifunctional sensor for detection of unauthorized access	Touch keypad for access control via PIN or RFID
Room / facility size	IT-Rack	-	20m², IT-Rack/210 sq ft	Door, Window, Rack, movable objects	Rack, IT-cabinet	Door, Room
Number of connectable MultiSensors	-	-	-	-	-	-
Configuration	Web-Server AlarmManager	Web-Server AlarmManager	- AlarmManager	- AlarmManager	- AlarmManager	- AlarmManager
Smartphone App	✔	✘	✘	✘	✘	✘
Built-in web-server	✔	✔	✘	✘	✘	✘
Server Monitoring (live-check)	✘	✘	✘	✘	✘	✘
Stand-Alone without AlarmManager	✔	✘	✘	✘	✘	✘
IP-Video camera trigger	✔	✘	✘	✘	✘	✘
SMS alarming (alarm, remote-control)	✘	✘	✘	✘	✘	✘
E-Mail alarming	✔	✘	✘	✘	✘	✘
VDS 2465-S2 alarming (TCP)	✘	✘	✘	✘	✘	✘
Datalogger with long-term storage	✔	✘	✘	✘	✘	✘
SNMP Trap (V2/V3)	✔	✘	✘	✘	✘	✘
SNMP MIB (V2/V3)	✔	✔ (KAM-PRO)	✔ (KAM-PRO)	✔ (KAM-PRO)	✔ (KAM-PRO)	✘
Alarm output with relay	✘	✘	✘	✘	✘	✘
Alarm output with open-collector	2	8 / 0	2	✘	✘	✘
External alarm input (for dry contact)	2	8 / 16	2	✘	✘	✘
Connection for leakage sensor	✔	✔	✔	✘	✘	✘
PoE (Power over Ethernet)	✘	✔	✘	✘	✘	✘
External power supply	✔	✔	✔	Battery (Li)	Battery (Li)	Battery (AAA)
Integrated UPD	✘	✘	✘	✘	✘	✘
LAN connection (10/100Mbit, IP-V4/V6)	✔	✔	✘	✘	✘	✘
ZigBee (Mesh Radio)	✘	✘	✔	✔	✔	✔
Kentix system socket	✔	✘	✔	✘	✘	✘
Sabotage control	✔	✘	✔	✔	✔	✘
Sensor - Temperature (0-99°C)	✔	✘	✔	✔	✔	✘
Sensor - Rel. Humidity (0-100%)	✔	✘	✔	✔	✔	✘
Sensor - Dew Point (°C)	✔	✘	✔	✔	✔	✘
Sensor - Carbon monoxide (CO >20ppm)	✔	✘	✔	✘	✘	✘
Sensor - Motion (PIR 360°, 12m)	✘	✘	✔	✘	✘	✘
Sensor - Vibration (vibration)	✔	✘	✔	✔	✔	✘
Voltage control	✔	✘	✔	✔	✔	✔
Power distribution unit switchable (PDU)	✔	✘	✘	✘	✘	✘
Power measurement (Consumpt., analysis)	✔	✘	✘	✘	✘	✘
RFID (Mifare®, Legic, Hitag)	✘	✘	✘	✘	✘	✔
Size (L x W x H in mm)	19" Rack, 1HE	72 x 123 x 35	90 x 90 x 45	62 x 27 x 27	62 x 27 x 27	135 x 90 x 19

System components Access

Device	AccessPoint	DoorLock-DC	DoorLock-LE	DoorLock-WA
Type	KXP-16 / KXP-16-RF	KXC-80/140-AABB	KXC-LE-XXXX	KXC-WA
Function	Access system for web-based administration and cross-linking of the online door openers	Online Door Knob with RFID and integrated radio	Online Door Lever with RFID and integrated radio	Online Wall Reader with RFID and integrated radio
Room / facility size	up to 1.584 doors	One door	One door	One door
Number of connectable MultiSensors	10*	-	-	-
Configuration	Web-server (HTTP/HTTPS)	AccessPoint, coding card	AccessPoint, coding card	AccessPoint, coding card
Smartphone App	✔	-	-	-
Radio-linkable	-	✔	✔	✔
Standard mortise lock (DIN18252 and DIN1303)	-	✔	✘	✘
Offline memory in the cylinder	-	1.000 users	1.000 users	1.000 users
Online memory in the AccessPoint	2.000 users	-	-	-
Eligible for outer doors IP66	-	✔*	✘	✔*
Eligible for fire proof doors	-	✔	✔*	-
Anti-panic option for escape doors	-	✔*	✔*	✘
RFID reader extendable on both sides	-	✔	✘	✘
Battery life (years)	-	up to 4 years	up to 8 years	-
Reporting of battery level	✔	✔	✔	✘
Total cylinder length	-	up to 140mm	Door up to 110mm	-
RFID reader MIFARE®	-	Classic®, DESFire®	Classic®, DESFire®	Classic®, DESFire®
Remote opening	✔	✔	✔	✔
Arming/disarming of Kentix alarm system	✔	✔	✔	✔
Number of radio integrated cylinders per AccessPoint	-	16	16	16
Maximum number of linkable AccessPoints	99	-	-	-
Radio range	approx. 25m	approx. 25m	approx. 25m	approx. 25m
Door profiles	100	-	-	-
Time-depdendent profiles (day of the week, time of day)	100	-	-	-
Access protocol memory depth	200.000	-	-	-
Ethernet	✔	-	-	-
Power over Ethernet (PoE)	✔	-	-	-
IEEE 802.1X authentication	✔	-	-	-
Integrable into AlarmManager	✔	-	-	-
Repeater function for MultiSensors	✔*	-	-	-
Sabotage protection	✔	✔	✔	✔
SNMP	✔	-	-	-
Memory extension (SD card)	✔	-	-	-
Radio frequency	868MHz/2.4GHz*	868MHz	868MHz	868MHz
Licenses	CE	CE, DIN15684	CE	CE
Batteries/power supply	PoE Class 2	2 x CR2 (3V)	CR123A	supply voltage 8-40V
Temperature range	0°C up to 50°C	-20°C up to +65°C	5°C up to 55°C	-20°C up to +65°C
Size (L x W x H in mm)	90 x 90 x 45	60-140	30-110	71 x 71 x 26

*depends on the type

Kentix – 360° safety made in Germany

Fulfills **IT COMPLIANCE**

Kentix is as manufacturer of professional monitoring solutions for server rooms, data centers and IT infrastructure. Kentix develops and manufactures its products exclusively in Germany with the highest quality standards. Authorities and enterprises from all sectors of the economy secure their IT systems against physical threats with the Kentix MultiSensor® technology. The Kentix MultiSensor® merges many different sensors in one functional unit which makes it very efficient compared to the market. In combination with the access component Kentix DoorLock, the solution becomes a complete system building kit that offers the matching product for any application.

The use of linkable IoT technology enables the inexpensive integration of the systems. Kentix products avoid disruptions of the operational environment, protect sites against physical theft and sabotage and report the consequences of human malpractice.

They significantly increase the IT availability and amortize in a very short amount of time.

Kentix360 Cloud Service

With Kentix360 you can use the information on the security status of your IT environment at any time and anywhere – it´s the security center for your pocket. But other critical applications in industry 4.0, logistics and supply can be monitored more effectively with Kentix360 as well. The advantage is the significantly faster information about critical conditions and resulting risks and thus the fastest possible response time to avoid critical system states.

KENTIX360

Innovative Security
Made in Germany

Choose your application:

Stand alone sensor, ideal for network monitoring

HTTP · ROOM · BUZZER · E-MAIL · MONITORING · LAN-PoE

· Rack and room monitoring up to 20 m²
· All-In-One room monitoring
· Power-over-Ethernet
· E-Mail / SNMP alarm

Monitored threats: up to 19

MultiSensor-LAN

Comprehensive IT rack monitoring with early detection and voltage analysis

Basis for greenIT

HTTP · RACK · BUZZER · SNMP - E-MAIL · MONITORING · LAN-PoE · ENERGY · PDU

· All-In-One rack monitoring
· Stand-Alone - Webserver
· E-Mail / SNMP alarm
· Integrated 8 way PDU, switchable
· Energy monitoring with 2 x 3.600VA

Monitored threats: up to 25

MultiSensor-RACK

Physical IT compliance solution for rooms from 20-200sqm / sq ft

ZIGBEE · LAN-PoE · BUZZER · RACK · GSM-INSIDE · SMS - E-MAIL · MONITORING · PING SERVER-PING · CLOUD

· Rack and room monitoring up to 200 m²
· Up to 10 MultiSensors with radio
· SMS / E-Mail / SNMP
· Up to 10 user accounts

Monitored threats: up to 30

StarterSet-BASIC

Physical IT compliance solution for rooms from 20-1.000sqm / sq ft

Monitored threats: up to 37

ZIGBEE · LAN-PoE · BUZZER · RACK · GSM-INSIDE · SMS - E-MAIL · PING SERVER-PING · MONITORING · SNMP · HTTP REQUEST · CLOUD · VDS 2465 TCP

· Rack and room monitoring, distributed facilities
· Up to 100 MultiSensors
· SMS / E-Mail / SNMP
· Up to 100 user accounts

StarterSet-PRO

Online Access System with video recording

SABOTAGE · LAN-PoE · RADIO · CLOUD · RFID - MIFARE® · ACCESS APP · E-MAIL

· Network compatible (PoE), radio integrated
· Webserver / App / Cloud
· E-mail / SNMP / Video
· Up to 2.000 authorizations

StarterSet-DoorLock

Online Door Knob with integrated radio (868MHz)

DOOR · RFID - MIFARE® · RADIO

· Easy assembly
· RFID reader integrated (MIFARE® DESFire®)
· Remote controllable, IT-linkable
· Suitable for inner or outer doors

DoorLock-DC
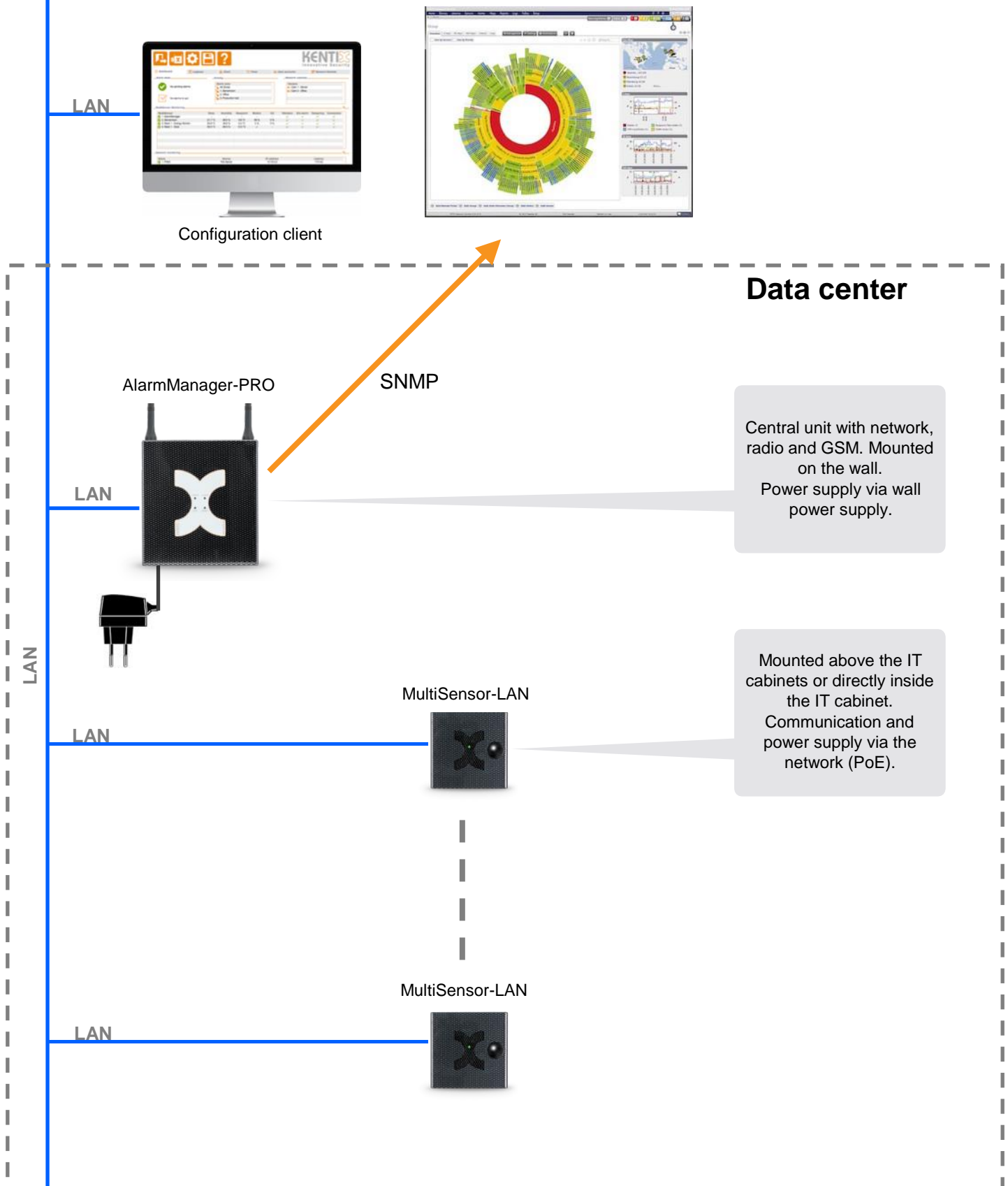
System topology

Data center

Configuration client

AlarmManager-PRO

SNMP

LAN

LAN

LAN

LAN

LAN

Central unit with network, radio and GSM. Mounted on the wall.
Power supply via wall power supply.

MultiSensor-LAN

Mounted above the IT cabinets or directly inside the IT cabinet. Communication and power supply via the network (PoE).

MultiSensor-LAN

System topology

Engineering rooms

MultiSensor-LAN

LAN

Mounted above the IT cabinets or directly inside the IT cabinet. Communication and power supply via the network (PoE).

LAN

LeakageSensor

Patch cable

Mounted on floor or under double floor respectively.

Digital I/O Expansion Module

KENTIX

LAN

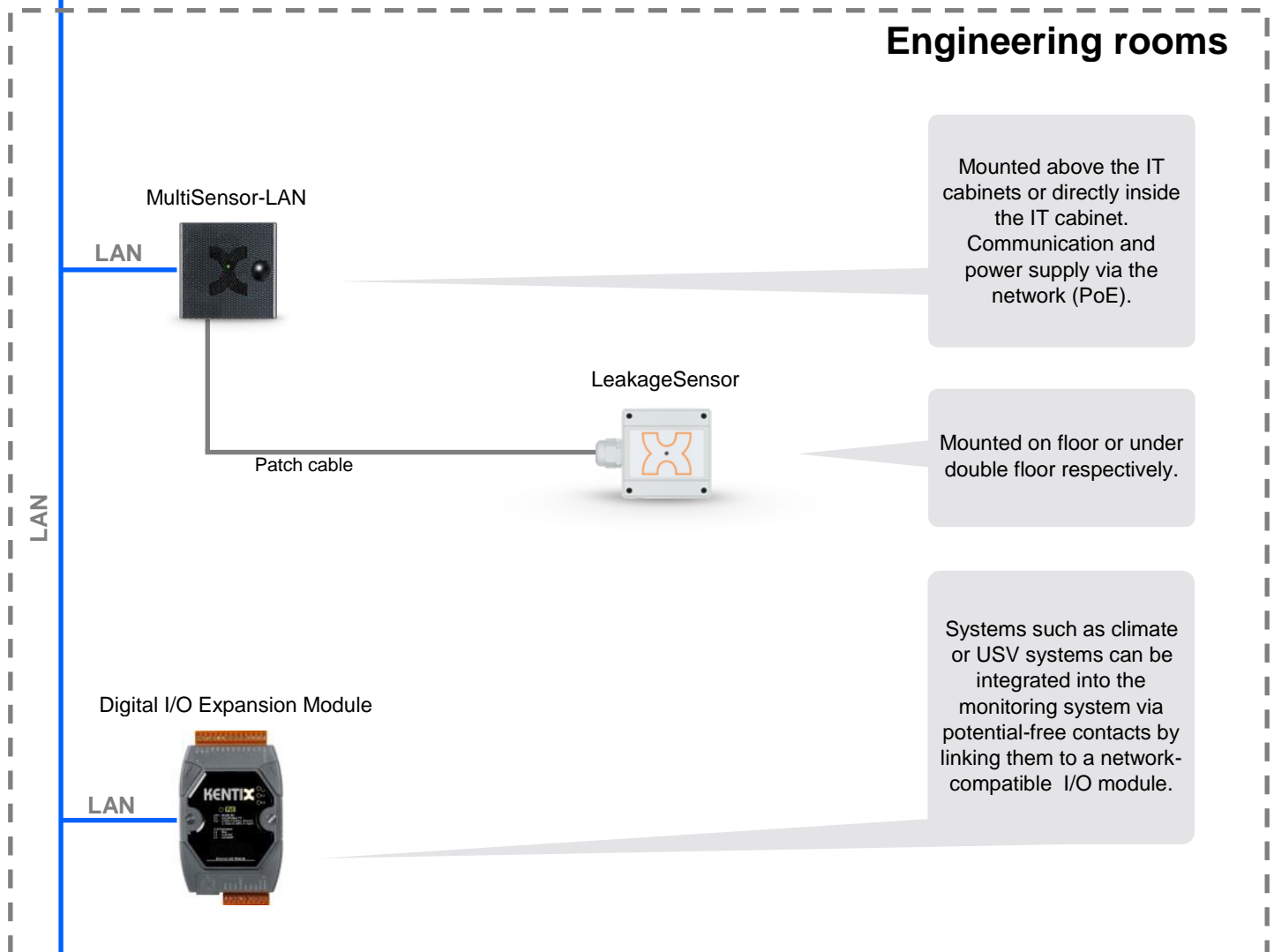Systems such as climate or USV systems can be integrated into the monitoring system via potential-free contacts by linking them to a network-compatible I/O module.

Mounting and configuration: Data center area - approx. 16 hours
Engineering rooms - approx. 2 hours each
**(without connection to I/O Expansion Modules)**

System topology
Expansions

MultiSensor-RACK

MultiSensor for installation in the IT cabinet. Expands the solution with power monitoring functions (flicker, over voltage, peaks) and PDU-functionality.

Camera (indoor)

In case of an alarm, the AlarmManager can send an HTTP call to a network camera.
The camera will begin recording or send pictures via e-mail.

AccessPoint
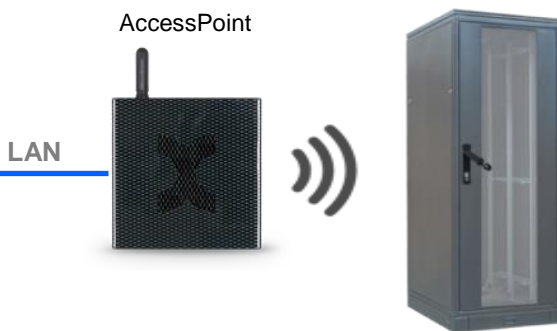
The Kentix DoorLock can equip IT cabinets with an online access control system. The solution is scalable as defined by the user and can be installed in IT cabinets as well as in doors of individual rooms.

Parts list - Ordering assistance - Data center

Device Name	Item Number	Quantity	
AlarmManager-PRO	KAM-PRO-B	1	
MultiSensor-LAN	KMS-LAN	15	

Parts list - Ordering assistance - Engineering rooms

Device Name	Item Number	Quantity	
MultiSensor-LAN	KMS-LAN	1	
LeakageSensor	KLS03	1	
Digital I/O Expansion Module	KIO7053	1	

Extensions

Device Name	Item Number	Quantity	
MultiSensor-RACK	KMS-RACK	1	
Camera	M3105-LVE	1	
StarterSet-DoorLock	KXC-1P1	1	