

ENTIE

Everything you need for the physical security of business-critical infrastructures

136 PAGES PHYSICAL IT SECURITY! CATALOGUE 2021



KENTIX

360° Physical IT-Security made in Germany

solutions to protect business-critical infrastructures. From individual server racks to data center and large-scale infrastructures, our solutions monitor rooms in need of protection and detect physical threats preventively. Our in-house operating system KentixOS analyses, processes and manages the collected data to make it easily and intuitively available to the responsible personnel.

The easy-to-install hardware and software products based on IoT cover use cases in the areas of environment monitoring, intrusion detection, access control, video surveillance and energy monitoring, thus enabling the highest level of protection from a single source thanks to the allin-one approach.

Companies from all sectors use Kentix products to protect their business against physical hazards and human error

We are Kentix, the specialist for holistic and scalable IoT and to comply with legal requirements. Development and production are carried out exclusively in Germany.

As important as the firewall

Over 50% of IT failures are caused by physical factors such as defects, fire, weather or human error. Such failures are protracted and very expensive, and the organisations affected by them are highly vulnerable.

With our Kentix MultiSensor® technology, we have succeeded in developing much more efficient products than those available on the market. We have thus significantly improved and at the same time simplified the monitoring of business-critical IT infrastructures. We rely on technologies such as IoT, AI and modern IT standards, which make our products easy to network and thus provide information faster and more securely.

Why you should choose Kentix



The Kentix All-In-One-Security-System integrates up to EIGHT systems (access control, intrusion alarm, early fire detection, environmental monitoring, alarm monitoring, network monitoring, video monitoring, PDU and power monitoring) in ONE and detects over 40 threats!

Our customers thus save up to 50% on investment and operating costs and no longer have to worry about interfaces.

ALL-IN-ONE SECURITY	360° All-In-One Security Reference solution server / technical room Reference solution Car-Sharing management Reference solution Locking solution IT racks Reference Solution Municipal Utilities & Supplie
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SmartMonitoring

System components
Products
Threat-Matrix – Which device monitors which three
StarterSets
Network Monitoring
SmartXcan

SmartAccess

SMARTACCESS

System components
Access radio-based
Access IP-based
StarterSets

SMARTPDU System components..... Products.....

SMARTVIDEO	SmartVideo
KENTIX360	Kentix360



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360



Kentix solutions for your business

DATA CENTER



From a simple server room to a complex data center, our SmartMonitoring products have been tried and tested ten thousand times and reliably secure the IT environments of our customers. In combination with Smart-Access and our robust SmartPDU we offer real 360° solutions with the best possible protection and early warning system.



DISTRIBUTED INFRASTRUCTURE



The monitoring of distributed infrastructures is our top speciality. Our products show all the advantages of an IT-based 360° solution across all trades such as monitoring, access control and video. We will show you how our integrated solutions can save you massive costs and keep your infrastructure under control.



OFFICE



Our SmartAccess solutions replace conventional access systems with all the advantages of a 100% IT-integratable system solution. Scalable from a small office to an office complex or co-working space. Web-based and easily networkable via radio or LAN for any door or gate, inside or outside, combinable with burglar alarm systems.



INDUSTRY

I we have a

Modern industrial plants must never fail. Failures cause high costs and image damage. Early detection and direct reporting of hazards is indispensable. Our SmartMonitoring fits seamlessly into the IT landscape and significantly increases plant availability. ISO27001 requirements are met.

KRITIS

The smooth operation of critical infrastructures is based on a functioning IT infrastructure. From the monitoring of critical operating areas to complex access control. Our smart solutions are tried and tested in this environment and ensure security and data protection.

LOGISTICS

Leading logistics companies use our Smart-Access and SmartMonitoring solutions to effectively manage and secure access to rooms, areas or warehouses. Integration into your own logistics applications is very easy thanks to our open Kentix | OS system architecture.



Securing the entire mission-critical IT infrastructure with just one system

LeakageSensor

Alarms reliably in case of

water ingress and can be

interconnected arbitrarily

Effective protection against physical risks in server and utility rooms

The Kentix MultiSensor® merges all important physical sensors in one device and monitors the entire IT infrastructure for up to 20 threats such as critical climate factors, fire or burglary. Thereby you lay the foundation for fulfilling regulatory IT security requirements such as the ISO 27001.

The MultiSensor can be connected to a Kentix AlarmManager via radio (ZigBee) or alternatively directly via a network. The installation and commissioning are very easily done with standard patch cables; wiring is not necessary. This way, it is possible to securely remote control the AlarmManager using a smartphone, for example to arm/disarm the system.

The advantages at a glance:

- Early detection of threats short reaction times, low subsequent costs
- Low personnel costs due to automatic monitoring

IP-Cam

Event-driven

HD video recording

SmartPDU Monitors power supplyin rack, enables calibrated Current

measurement

44

- Relief for the system administrator low liability risk
- Low operating costs due to remote monitoring
- Low investment costs -easy installation and launch
- ROI within one year immediately if only one outage is prevented

Easy installation and low system costs due to innovative all-in-one solution

AlarmManager-PRO

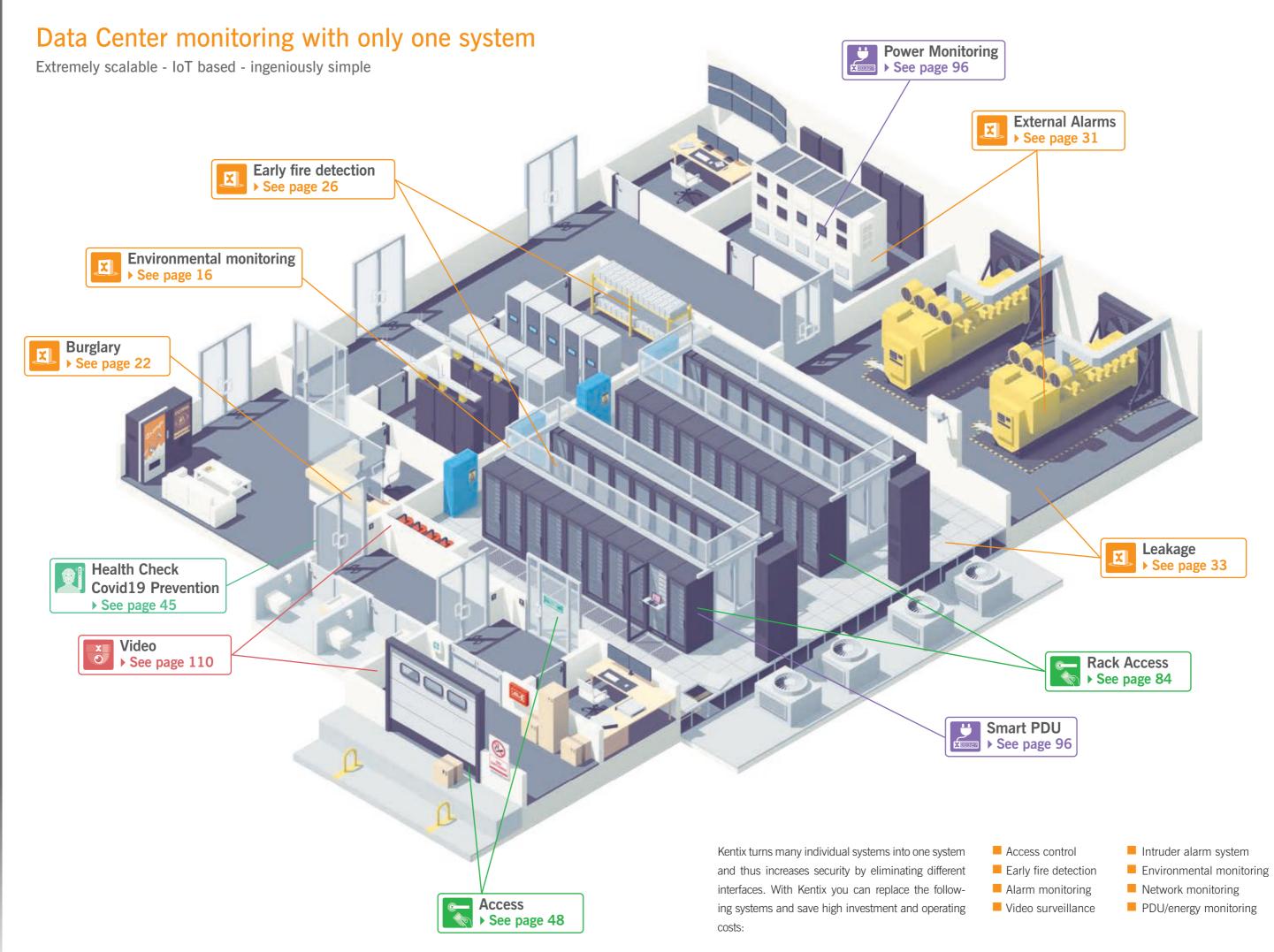
Wireless Cabinet Lock Online access control for IT racks with remote controldoors in

The alarm central; alarms via e-mail, SNMP or

All data of the MultiSensors merge in the AlarmManager and are evaluated there. Moreover, the AlarmManager perdiodically monitors the sensor network and reports error states or manipulation. A 4G modem is integrated in the AlarmManager by default which transmits the alarm messages independently. Therefore, the responsible persons are informed about possible error states in real time. Messages can be transmitted via e-mail or SNMP trap as well. This way, it is possible to securely remote control the AlarmManager by means of any SMS-enabled mobile phone and, for example, arm/disarm the system.







Monitor the entire IT infrastructure and more with just one system

Technology containe

Technical operating rooms

1.8

CONTROL OF



Environmental monitoring

It hardly makes sense to only secure single parameters of mission-critical infrastructures. The Kentix MultiSensor® technologoy monitors all major envi-

X

X

Early fire detection Detecting fires or smouldering fires at

an early stage is vital in order to prevent great damage. Kentix MultiSensors measure combustion gases at a very low concentration and alarm at an early stage.

▶ See page 26



Generator rooms



▶ See page 48

Burglary and sabotage protection X Burglary or sabotage by external or internal intruders lead to outages and high costs again and again. With Kentix system solutions, even the smallest functional units can be monitored independently. ▶ See page 20

Control rooms

1.2.5

- 14 - ¹

· . . . 3.5







Alarm-synchronic video recording

For a quick assessment of critical states in remote sites, video recording is essential. Kentix systems record video data synchronically to alarm events and transmit them in one message together with other system information.

▶ See page 110



SmartPDU

Electric supply systems are the lifeline of any mission-critical infrastructure. We offer simple solutions in order to monitor these completely, to alarm quickly and ultimately to prevent outages.

► See page 96

Easy Setup **KENTIX** OS Easy Deployment

The "heart" of all our solutions is called KentixOS and is one of the most modern IoT platforms in security technology. It is extremely scalable, has no real system limits and can be organised decentrally or centrally in any system topology. This means you always have full control, regardless of whether you are monitoring a server rack or a global IT infrastructure.

With all our systems, the software for configuration cial feature: Updates are free of charge at any time and operation is already integrated. The state-of-theart web GUI requires only a current web browser communication is secured via TLS/HTTPS and data is encrypted. After selecting your language, you can immediately begin with the configuration.

Due to the high level of standardisation of the software modules, use is the same on all our devices. As an IoT specialist, we deliver a system that integrates seamlessly into your IT landscape. The spe-

KentixOS & Artificial Intelligence

KentixOS already includes an AI architecture for machine learning. The applications run on the Kentix devices themselves, as so-called edge AI and not in a remote cloud application. This has many advantages, especially in to make autonomous and fast decisions on decisions on the spot.

In the future, AI will be an integral part of many Kentix applications and will relieve you as a user of essential decisions and simplify the overgrowth of complex infrastructures. Kentix SmartXcan is one of the first applications based on AI for face and position recognition.



This avoids measurement errors and increases measurement accuracy.

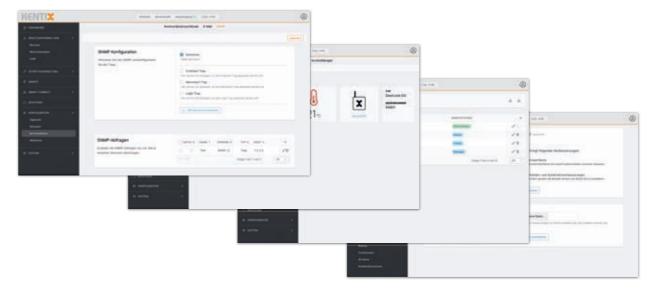
and can be easily rolled out using integrated deployment tools.

In addition to the flexible web GUI, there are also corresponding apps for operation via smartphone.

These offer secure and fast remote access via Kentix 360, without time-consuming configuration. Open interfaces such as SNMP-V2/3, REST-API or Mod-Bus/OPC are a matter of course for us

These functions are available in all Products with Kentix OS:

- LDAP or AD-Integration
- HTTPS with server certificate
- SmartAPI REST-API based on JSON
- WEBHOOKS Server-based events (JSON, XML, CSV)
- SNMPv2/3 with standardized MIB
- Automatic backup to SMB or SD card
- E-mail notification
- User administration with authorization management
- Simple update function via Web-GUI
- Automatic software deployment





With the REST-API, the possibility of vertical integrati-Kentix system solutions are consistently based on web technologies and IT standards. The range of functions on is many times greater. In addition to the REST-API, SNMPv2/3 is also available as a standard interface for and system scaling is already enormous by nature and is sufficient in many projects. all products.

What is REST-API?

The REST API is a programming interface based on offer completely new integration possibilities and an the paradigms and behaviour of the World Wide Web enormous expansion of possible uses in digital bu-(WWW). It has reached the status of an industry stansiness models and cloud solutions. The use of the Kentix REST API is free of charge. dard and is used by providers such as AWS, VMware, Azure and many cloud providers. Kentix systems thus

What are Webhooks?

In addition to the API query via HTTP POST request sion of events. The special thing about them is that using JSON objects, so-called webhooks are avaithey are arbitrarily configurable and independent of the lable for the most important system events such as data model. They can be JSON or XML based. The alarms, bookings and system messages. Webhooks webhooks are simply created via the software interface are server-based events for the immediate transmis-(web GUI) of the respective devices.

More information and examples at docs.kentix.com The complete documentation is available from our support.

Complete IT Infrastructure Monitoring

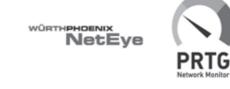
In cooperation with our technology partners, we further develop our solutions continuously and offer uniform interfaces for an open system architecture with prospects.

Simply integrate Network Monitoring Tools into environmental monitoring

The Kentix MultiSensor[®] technology monitors all major physical threats in rooms and racks such as critical climate factors, fire or burglary with just one system. The different measured and alarm values are made available via SNMP (v2/3) and can very easily be integrated into the according Network Monitoring Tool via the SNMP Management Information Base (MIB).

This way, the Kentix MultiSensor® technology provides the data for your network monitoring simply and reliably. Due to the combination of both systems, a gapless monitoring of your company-wide infrastructure is established - and it is ingeniously easy. Kentix devices support all major monitoring and DCIM (Data Center Infrastructure Management) tools.







ENVIMonitor

and many more ...



SNMP Support

- Complete MIB for all integrated sensors
- Traps supported
- Query and integration of all measured values into network monitoring systems

HTTP Support

- Data exchange via XML
- HTTP commands for sending SMS (integrated SMS gateway)
- HTTP triggering of IP cameras

Nagios lcinga CA Unified Infrastructure Management **GFI Network Server Monitor** HP OpenView IBM Tivoli Ipswitch WhatsUp Gold (whatsupgold.com) Microsoft Operations Manager Adrem Software NetCrunch OpManager Quest Big Brother ruleIT Monitoring Server Spectrum Enterprise Manager SysLink Xandria

Further details on integration and the SNMP MIB for download docs.kentix.com







tem against up to 37 physical threats such as over temperature, burglary or fire – that is what makes Kentix so ingeniously easy.



IP environmental monitoring ingeniously easy with the Kentix MultiSensor® technology

Kentix systems replace several single systems such In contrast to outages that are caused by software errors, downtime due to physical defects is usually as temperature sensors, burglar alarms or fire detecmore expensive and lasts longer. The Kentix Multition systems and therefore save about two thirds of Sensor[®] technology offers the ideal solution for the the otherwise usual costs. physical protection of your IT infrastructure. With few components, it detects all major threats at an The following systems are already integrated: early stage and alarms before expensive outages Climate monitoring occur. Real time information and redundant repor-Intrusion detection system ting channels such as SMS or PUSH messages are Early fire detection an integral part of our AlarmManagers. This way, Current/network monitoring you always rereceive alarms reliably and even if the Access system company network is down. Server live check

Kentix devices are completely IT based and easy to integrate even in distributed IT infrastructures. The entire software is already included; therefore, no additional costs apply. The configuration and administration of the entire system happens centrally and comfortably per web interface. Close a gap in your IT security with Kentix and fulfill regulatory requirements such as BSI baseline protection and the ISO 27001. Avoid liability risks!



The ingeniously easy Kentix MultiSensor® technology detects the most important physical threats in rooms and racks with just one system.



MultiSensor: Monitors up to 20 physical threats

AlarmManager: Central monitoring unit with radio, LAN and 4G

Application possibilities:

- Server room, utility side rooms, IT cabinet
- Data center and container data center
- Mission-critical infrastructure
- Industry and distributed sites
- Warehouse, logistics, barrier systems
- Hospital, medical practice, medicine cabinets
- Office and administration buildings,
 - branch offices

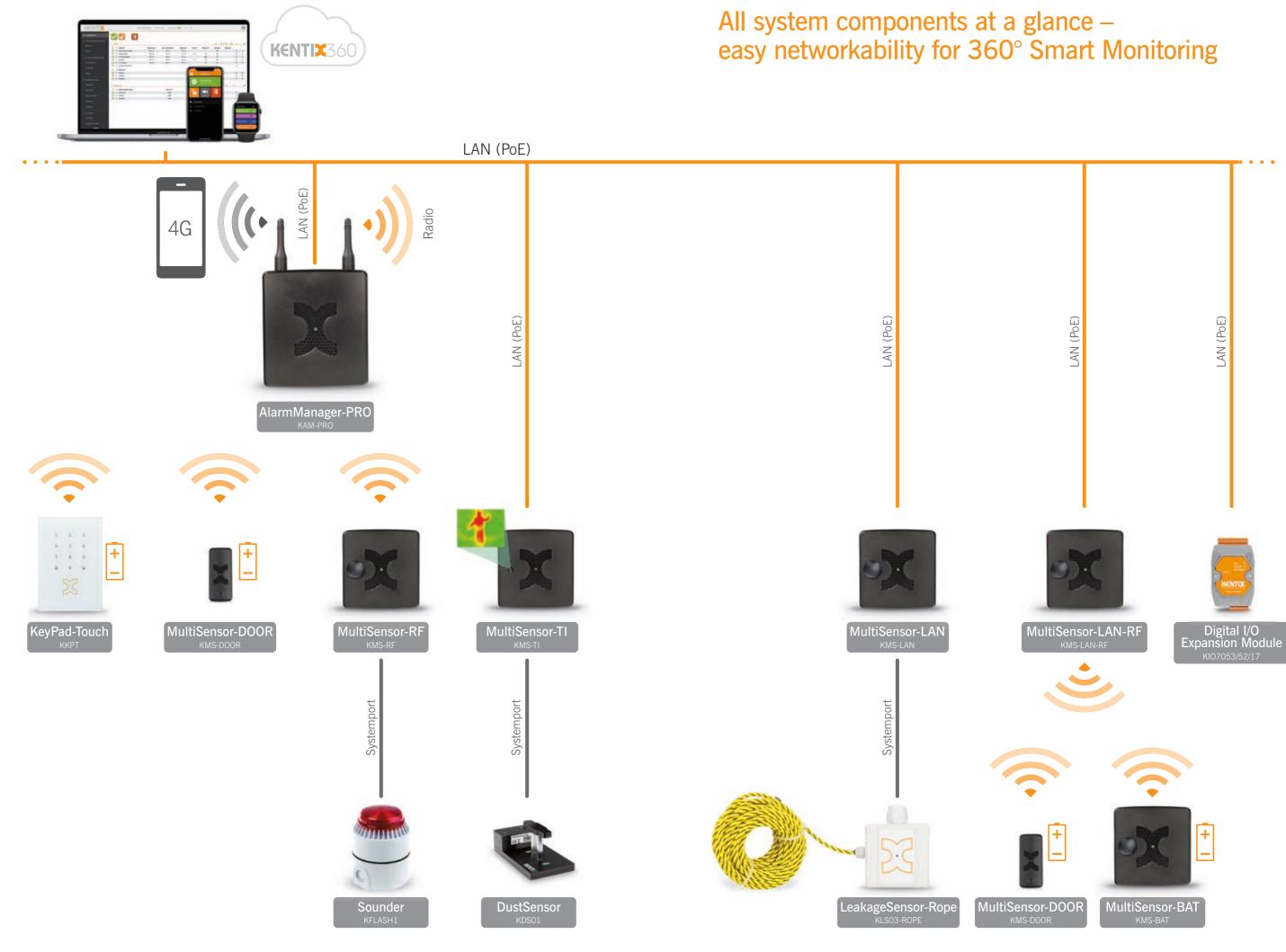
StarterSet -Secures your IT rooms according to the ISO 27001

AlarmManager, MultiSensor KMS-RF and MultiSensor-DOOR

• For more info on the StarterSets see page 40



Software completely integrated. Easy control with any Browser. Secure remote control with Kentix360. Kentix App for iPhone and Android available.



SmartMonitoring



AlarmManager

The AlarmManager is the intelligent alarm central of the system; all the information of the MultiSensors merge here. The Alarm-Manager is mounted in the server room or rack and forwards all alarm or fault messages to the responsible persons. The configuration happens via a comfortable web interface. All system messages are filed in an internal database.

Item number

KI03

KMA3

KMA3-5

KDC1-W

KPOE100EU



Accessories

I/O Module with relays

Gain magnet antenna

Magnet Türkontakt

Antenna extension (5m)

Туре

PoE Injector

Products

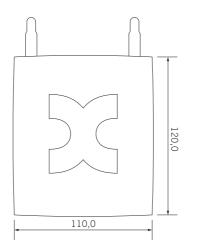
Тур	Housing color	Item number
AlarmManager-BASIC	Black	KAM-BASIC-B
AlarmManager-BASIC	White	KAM-BASIC-W
AlarmManager-PRO	Black	KAM-PRO-B
AlarmManager-PRO	White	KAM-PRO-W

Technical Details

lechnical Details	
Number of MultiSensors	Up to 500 MultiSensors and devices total
Integrated sensors	Temperature -99 up to $+99^\circ$ C, humidity 0-100%, dew point $^\circ$ C
Sabotage sensor	Internal vibration sensor (adjustable)
Signal transmitter	85dB, 2.3kHz
LED	GREEN/RED
Radio	ZigBee® 2,4GHz ISM Band +3dBm output IEEE802.15.4, encryption AES 128 Bit
SD card	Micro SD card slot for cards up to 128GB
SNMP	SNMP V2/3, SNMP Traps (MIB)
Ethernet	10/100Mbit
Integrated 4G modem	Quad-Band 850/900/1800/1900MHz; integrated SIM card holder
Power supply	PoE Class 3 or via external I/O Module KIO3 (accessories)
	12-32VDC, power consumption approx. 5W
Integrated emergency power supply	Autonomy time via internal super capacitor approx. 4 min., internal power monitoring
Kentix system port	2x RJ45, for the connection of external Kentix Plug'n'Play modules (accessories)
Alarm inputs (system port)	4x alarm input for potential-free wiring
Switch outputs (system port)	4x Open Collector 0.1A/24V
	Optional: I/O Module with relay (KIO3) for the connection of external systems
Housing	Protection class IP20, size 110 x 120 x 45 mm, weight approx. 300g,
	colors: white, black
Environmental conditions	Temperature 0 – 50°C, humidity 5-95%, non-condensing
Delivery contents	AlarmManager, antennas (ZigBee [®] , 4G), mounting bracket,
	SlimLine cable 3m, mounting material
Approvals	CE

Function Overview - Device Variants

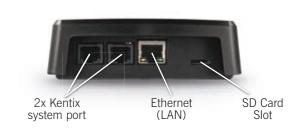
Variant	KAM-PRO	KAM-BASIC
Function	4G alarm and control	4G alarm and control
	central for MultiSensor,	central for MultiSensor,
	KeyPad, accessories	KeyPad, accessories
Room/site size	up to approx. 10.000 m ²	up to approx. 4.000 m ²
Number of connectable MultiSensors	500	200
MultiSensors with radio	 ✓ 	V
MultiSensors with LAN	 ✓ 	×
Configuration	Web server	Web server
Smartphone app	 ✓ 	 ✓
Integrated web server (HTTPS)	 ✓ 	 ✓
Server monitoring (live check)	V	 ✓
IP video camera control	 ✓ 	 ✓
SMS alarms	V	 ✓
E-mail alarms	 ✓ 	V
VDS 2465-S2 alarming (TCP)	~	×
SNMP Trap (V2, V3)	 ✓ 	V
SNMP MIB (V2, V3)	~	V
Data logger with long-term memory	 ✓ 	V
External I/O modules (ethernet)	~	×
Switch outputs (Open Collector)	4	4
Alarm inputs (isolated)	4	4
Port LeakageSensor	 ✓ 	V
PoE (Power over Ethernet, Class3)	\checkmark	V
External power supply	 ✓ 	V
Integrated UPS (super capacitor)	 ✓ 	 ✓
LAN port (10/100Mbit, IP-V4)	 ✓ 	V
ZigBee (radio)	V	 ✓
Kentix system port	\checkmark	V
Sabotage monitoring	\checkmark	 ✓
Sensor - Temperature (0-99°C)	 ✓ 	V
Sensor - Relative humidity (0-100%)	V	 ✓
Sensor - Dew point (°C)	 ✓ 	 ✓
Sensor - Vibration (shock)	V	 ✓
Voltage monitoring (PoE)	 ✓ 	V
Size (L x W x H in mm)	110 x 120 x 45	110 x 120 x 45



- 20 -

45,0







KENTIX OS



MultiSensor

The MultiSensor is the ingeniously easy solution for sever room monitoring. With just one device you monitor your IT infrastructure for up to 20 physical threats such as critical climate factors, fire or burglary and lay the foundation for fulfilling regulatory requirements according to BSI baseline protection and the ISO 27001.



The MultiSensors are available with Ethernet (PoE) or wireless connectivity. The network-compatible Multi-Sensors are stand-alone capable and can also be operated without AlarmManager.

Depending on the type, the MultiSensors with wireless connectivity are either powered by a power supply unit or battery operated. You always need an AlarmManager for administration.

MultiSensors at a glance



RADIO

BATTERY

Item Number Туре MultiSensor-LAN KMS-LAN-B MultiSensor-LAN KMS-LAN-W



All MultiSensors are

available in the housing colours black and white!

Туре Item Number MultiSensor-LAN-RF KMS-LAN-RF-B MultiSensor-LAN-RF KMS-LAN-RF-W



Туре Item Number MultiSensor-DOOR KMS-DOOR-B MultiSensor-DOOR KMS-DOOR-W

One device that detects all major physical risks – the Kentix MultiSensor® Temperature Humidity Monitoring of room temperature Monitoring of humidity Monitoring of room air-conditioning Monitoring of cooling or heating Dew point Supply voltage Monitoring of the external voltage Monitoring of the dew point Prevention of condensation Bridging and reporting







Carbon monoxide (CO) Early fire detection via highly sensitive CO sensor

Detection of emerging fires

External signal inputs Enables the connection of external devices such as LeakageSensors

Door contacts, fault messages of external devices



Acoustic signal transmitter Integrated signal transmitter for acoustic alarming



Sabotage monitoring Continuous monitoring of possible manipulation and sabotage of MultiSensor and AlarmManager



Air pressure (hPa)

Air pressure measurement to deter mine different pressure ranges or the height

Integrated sensors depending on device type, see page 28



Item Number Type MultiSensor-TI KMS-TI-40-B MultiSensor-TI KMS-TI-40 W KMS-TI-90-B MultiSensor-TI KMS-TI-90-W MultiSensor-TI



Type MultiSensor-RF MultiSensor-RF

KMS-RF-B KMS-RF-W



Туре Item Number MultiSensor-BAT KMS-BAT-B MultiSensor-BAT KMS-BAT-W



of power failure



PIR motion detection

- Fast motion detection
- Secure detection of
- unauthorized persons



Ext. alarm and switch outputs

- Control of external alarm devices such as sirens, flashing lights
- Remote control of devices



ZigBee radio transmission

- Encrypted transmission of sensor
- data to the central unit
- High range and security due to automatic networking



Air quality

- Determination of air quality according to the IAQ Index (Indoor Air Quality) Combination with the integrated
- early fire warning sensors



Thermal Image Sensor

Optimal detection of thermal hotspots Graphical image display

MultiSensor with thermal image

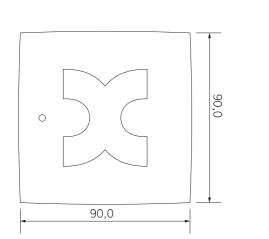
The MultiSensor-TI is the latest MultiSensor technology with integrated thermal image sensor for monitoring critical plant conditions and early fire detection. In addition to pure thermal monitoring, the sensor also enables motion detection of persons with direction of movement as well as the number of persons. Compared to thermal cameras, the sensor has the advantage that it is data protection compliant and links additional sensors with the thermal evaluation. For early fire detection, this means that up to four factors (thermal image, CO, air quality, room temperature) are evaluated for reliable detection.



Sensor Matrix

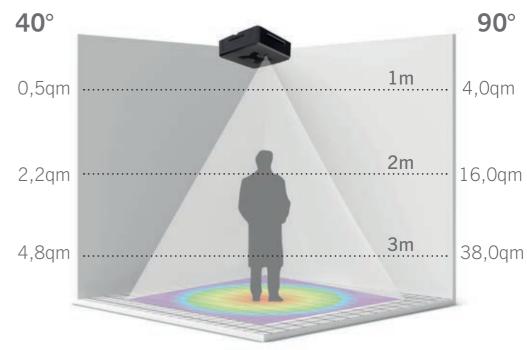
SmartMonitoring

	Early firedetection	Movement	Climate	Sabotage	External Alarm
Thermal image sensor (40/90)°) 🖌	×	 ✓ 	 ✓ 	-
Carbon monoxide sensor (CO)) 🖌	-	-	-	-
Air quality (IAQ)	 Image: A second s	-	 ✓ 	-	-
Temperature	 Image: A set of the set of the	-	 ✓ 	-	-
Humidity	-	-	 ✓ 	-	-
Dew point	-	-	 	-	-
Air pressure	-	-	 ✓ 	-	-
Vibration	-	-	-	 	-
External inputs	-	-	-	 ✓ 	V





Monitored area by optics 40°/90°



Calculation tool at https://docs.kentix.com

Presentation in KentixOS WEB-GUI



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Terrenter 11 Terrenter 10 Terrenter 10 Te			
	-		
		-	
21		-	

Dashboard overview with all measured values

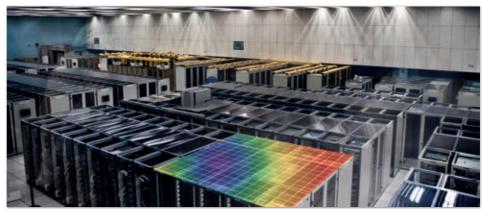
Early fire detection with MultiSensor technology

Fires in technical installations are often (>50%) a sensitively responding sensor system optimized for caused by electrical faults and can have many reasons such as insulation faults, overcurrents or improper maintenance. In addition, there are ever increasing power and packing densities which, especially in IT systems, require forced cooling for error-free operation. In most cases, such fires develop over a long period of hours or even days. In order to detect the actual fire or even just a "creeping defect" at an early stage,

fire parameters is required.

The Kentix MultiSensor combines a large number of different sensors in one device, with the aim of detecting as many dangers as possible. In early fire detection, these are four factors in particular, which are evaluated. Here too, the primary goal is to detect and react to the initial fire at an early stage, before major damage occurs.

Application examples



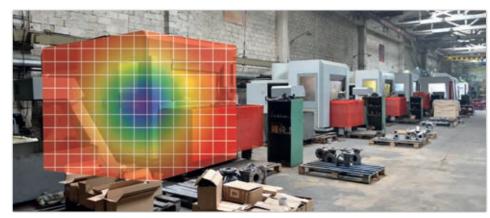
Data Center

The Kentix 4 factor early fire detection - detect fires before they start





* Volatile Organic Compounds (VOC) is the collective term for organic, carbon-containing substances. These are to an extent relevant for air pollution control. They change into the gas phase by evaporation and are therefore called volatile gases.



Production facilities



Battery UPS systems



Generators, aggregates, electrical systems

SmartMonitoring

Functional overview MultiSensor Types





Device	AlarmManager	MultiSensor-TI	MultiSensor-LAN
Туре	KAM-BASIC/ KAM-PRO	KMS-TI	KMS-LAN
Function	4G signalling and control Unit for Alarm monitoring	Multifunction sensor with thermal sensor	Multifunction sensor with Ethernet
Room or plant size	up to approx. 10.000 m ²	1-50 m ²	20 m ² , IT Rack
Number of connectable MultiSensors	200 / 500		
Configuration	Web-Server (HTTPS)	Web-Server (HTTPS)	Web-Server (HTTPS)
Smartphone app	V	V	×
Integrated Web Server (HTTPS)	V	\checkmark	×
Integrated 4G modem	V	×	×
Server monitoring (live check)	 ✓ 	×	×
Stand-alone capability without AlarmManage	r X	V	v
Video recording IP camera (HTTP/S)	 ✓ 	\checkmark	 ✓
SMS alerts	v	×	×
E-mail alerts	 ✓ 	\checkmark	V
VDS 2465-S2 Alarm (TCP)	✓	×	×
SNMP V2/3, traps	 ✓ 	V	V
REST-API (HTTPS/JSON),Webhooks	v	V	V
Data logger with long-term memory	 ✓ 	V	V
Switching outputs (open collector)	4	2	2
Alarm inputs (potential-free)	4	2	2
Connection leakage/dust sensor	 ✓ 	V	V
PoE (Power over Ethernet)	 ✓ 	V	
External power supply	 ✓ 	V	 V
Integrated UPS	V	×	×
Ethernet connection (10/100Mbit)	v	 ✓ 	v
ZigBee (radio)	V	×	×
ZigBee repeater function	 ✓ 	×	×
Kentix system port	V	\checkmark	v
Sabotage monitoring	 ✓ 	V	v
Sensor - Temperature (0-99°C)	v	\checkmark	 ✓
Sensor - Relative humidity (0-100%)	V	V	v
Sensor - Dew point (°C)	v	\checkmark	 ✓
Sensor - carbon monoxide (CO >20ppm)	×	 ✓ 	 ✓
Sensor - Motion PIR	×	\checkmark	 ✓
Sensor - Thermal image (1024 pixel)	×	V	×
Sensor - Vibration (shock)	V	\checkmark	 ✓
Sensor - Air quality	×	 ✓ 	×
Sensor - Air pressure	×	\checkmark	×
Monitoring of the supply voltage	 ✓ 	×	×
SD card slot (Micro SD)	~	 	 ✓
Protection class	IP20	IP20	IP20
Size (L x W x H in mm)	110 x 120 x 45	90 x 90 x 45	90 x 90 x 45
Approvals	CE	CE	CE



MultiSensor-LAN-RF	MultiSensor-RF	
KMS-LAN-RF	KMS-RF	
Multifunction sensor with Ethernet and ZigBee radio as repeater	Multifunction sensor with ZigBee radio	
20 m ² , IT Rack	20 m ² , IT Rack	
25 (Radio)	-	
Web-Server (HTTPS)	AlarmManager	
×	×	
V	×	
×	×	
×	×	
×	×	
V	×	
×	×	
v	×	
×	×	
v	×	
v	×	
V	🖌 (KAM)	
2	2	
2	2	
v	v	
V	×	
v	V	В
×	V	
v	×	
V	V	
V	V	
V	V	
V	V	
V	V	
V	V	
V	V	
V	V	
V	V	
×	×	
V	V	
×	×	
×	×	
×	V	
V	×	
IP20	IP20	
90 x 90 x 45	90 x 90 x 45	
CE	CE	





MultiSensor-BAT	MultiSensor-DOOR	
KMS-RF-BAT	KMS-DOOR	
Multifunktions- Sensor mit ZigBee-Funk	Multi-function sensor to detect unauthorized access or entry	
20 m ² , IT Rack	Door, Window, Rack	
-	•	
AlarmManager	AlarmManager	
×	×	
×	×	
×	×	
×	×	
×	×	
×	×	
×	×	
×	×	
×	×	
×	×	
×	×	
✓ (KAM)	✔ (KAM)	
×	×	
×	×	
×	×	
×	×	
Batterie (Li, 1/2AA))	Batterie (Li, 1/2AA))	
×	×	
×	×	
~	 	
×	×	
×	×	
~	v v	
· ·	v	
~	v	
· ·	×	
~	×	
×	×	
~	~	
×	×	
×	×	
~	~	
×	×	
IP20	IP20	
90 x 90 x 45	27 x 27 x 62	
90 X 90 X 45 CE	27 x 27 x 62 CE	
0L	UL UL	



MultiSensor-DOOR

Ultra-compact MultiSensor for the detection of burglary attempts on doors, windows and moveable objects, including climate monitoring. It replaces classic door contacts and can very easily be mounted due to its magnetic contact that adapts to the conditions of the door or window respectively. The Multi-Sensor-DOOR is battery operated and has a very long battery life (up to 4 years).

62,0

27,0



Products

Туре	Housing color	Item number
MultiSensor-DOOR	Black	KMS-DOOR-B
MultiSensor-DOOR	White	KMS-DOOR-W
Accessories		
Туре		Item number
Spare battery		KER14250

Technical Details

Connectivity	AlarmManager-BASIC (KAM-BASIC); AlarmManager-PRO (KAM-PRO)
Sensor – Temperature	Measurement range -20°C/-4°F up to +99°C/210°F (accuracy +/- 0,5°C)
Sensor – Relative humidity	Measurement range 0 up to 100% (accuracy +/- 3%)
Sensor – Dew point	Measured in °C/°F
Sensor – Vibration	3 axis, sensitivity adjustable
Sensor – Reed contact	Magnetic sensor for door position (spacing up to approx. 1 cm)
Sensor – Sabotage	Sabotage message when disassembled
Signal transmitter	65dB, 2.3kHz
LED	Multicolor LED (Red/Green); ALARM (Red); Teaching-in (Green)
Radio	ZigBee® 2,4GHz; ISM Band +3dBm; output IEEE8 02.15.4;
	encryption AES 128 Bit
Power supply	Lithium-ion battery, 1/2 AA 3,6V (1.200 mAh); battery life up to 4 years
	(approx. 200.000 transactions)
Housing	Material: PS 62 x 27 x 27 mm; weight approx. 50g; colors: black, white
Environmental conditions	Temperature 0 – 45°C; humidity 5-95%, non-condensing
Delivery content	1x Li-battery 3,6V/1.200mAh, mounting material, magnet for REED contact
Approvals	CE



The I/O Expansion Module is connected to the AlarmManager-PRO and serves the connection of external alarm messages. It communicates via ethernet. This way, the module can be mounted in any arbitrary place. The configuration happens on the web interface of the AlarmManager-PRO. Via the integrated web server, the module offers an easy IP configuration and testing of the in/outputs without additional software. Up to 32 modules (500 alarm inputs max.) can be operated on one AlarmManager-PRO.

Products

Туре	Inputs	Outputs
I/O Module	Digital inputs for voltage wiring; ON:	Open-Collector
	+10-50VDC, OFF: +4DC; input	40VDC, capac
	impedance: 10kOHM, overvoltage	to 1.1A overcu
	protection 70VDC	tion), overvolta
		47VDC
I/O Module	Digital inputs for potential-free wi-	_
	ring, ON: open, OFF: input switched	
	to GND	
I/O Module	8 analog inputs for measured values	—
	0-10V, 4-20mA	

Accessories

Туре	Ite
PoE Injector	KF
External Temperature Sensor (IP66) -50°C to 100°C	KE
External cable Temperature Sensor (IP66) -50°C to 100°C	KE

Technical Details

Connectivity	External alarms of existing system compone
	(air conditioners, UPS systems, generators,
AlarmManager	Connection to Kentix AlarmManager-PRO
Configuration	Integrated web server (HTTP)
Protocols	KAM-IO-Communication per IP-Port: 502 (
Security	ID, passwort and IP filter
Terminal clamps	Pluggable screw terminals for cables up to
Isolation	Ethernet 1,5kVDC, I/O 3,7kVrms
Environment	Operating temperature -20°C up to $+60$ °C,
Network	LAN 10/100 Base-TX (PoE)
Power supply	PoE (Class 1) or external adaptor 12-32VD
Housing	76 x 128 x 38 mm (DIN rail assembly)
Delivery content	KI07052/KI07053/KI07017, 3m patch ca
Approvals	CE

Digital I/O Expansion Module





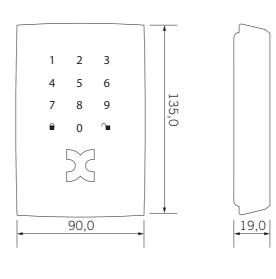
KeyPad-Touch

The KeyPad with glass-touch-pad is used to arm/disarm the AlarmManager and to control access. Each event is documented and saved in the log book of the AlarmManager. The KeyPad is easy to mount on the wall and is battery operated with two standard AAA batteries. By default, the KeyPad-Touch is equipped with an RFID card reader (MIFARE® DESFire®, LEGIC® advant).



Products

Туре	Reader	Item number
KeyPad-Touch	RFID reader 13.56MHz for	KKPT
	MIFARE [®] and LEGIC [®]	
	advant RFID mediums	

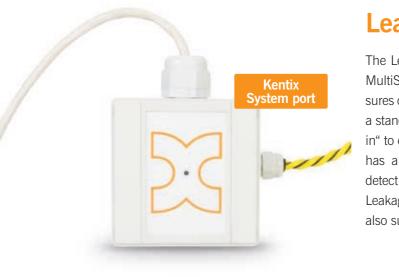


Accessories

Туре	Delivery content	Item number
RFID keyfob	1 piece	KKT-M
RFID keyfob	25 pieces	KKT-M25
Transponder card	1 piece	KKT-MC
Transponder card	25 pieces	KKT-MC25

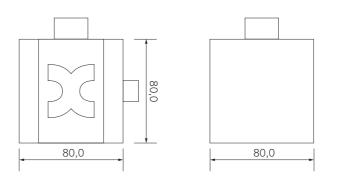
Technical Details

AlarmManager-BASIC/PRO, MultiSensor-LAN-RF
70dB, 2.3kHz
Zone (RED/GREEN), armed (RED/GREEN), disarmed (RED/GREEN)
ZigBee® 2,4GHz ISM Band +3dBm output; IEEE8 02.15.4;
encryption AES 128 Bit
ntegrated RFID reader (13.56MHz); ISO14443A/B, ISO15693,
S018092/NFC (MIFARE®DESFire®, LEGIC® advant)
Battery operation 2 x 1.5V/AAA; battery life approx. 2 years, depending on the number of read
cycles
Vaterial: PS 90 x 135 x 19 mm; weight approx. 100g; color: white; protection class IP40
Temperature 0 – 45°C; humidity 5-95%, non-condensing
KeyPadTouch, 2x MIFARE [®] DESFire [®] RFID keyfob, 2x AAA batteries
Spare battery 1.5V/AAA, 1000mAh
7 Z C C C C C C C C C C C C C C C C C C



Products

Туре	Sensor cable length
LeakageSensor	—
LeakageSensor-ROPE	10 meters
LeakageSensor-ROPE	20 meters



Technical Details

Connectivity	Kentix system port (RJ45)
Power supply	Via Kentix system port
Status LED	RED/GREEN
Temperature range	-25°C up to 70°C / max. 85%rF, non-conde
Connection cable	10m, RJ45 plug for Kentix system port
Housing sensor	Ni/Au, sensitivity: 1ml water
Rope sensor	Conductive polymer cable, sensitivity: 10m
Housing	Color white, protection class IP65 according
Cable fittings	M20
Weight	Approx. 200g (KLS03), 0,75kg (KLS03-R0
Size	80 x 80 x 80 mm
Delivery content	LeakageSensor, 10m connection/patch cab

LeakageSensor

The LeakageSensor is connected to an AlarmManager or a MultiSensor-LAN/-RF per plug'n'play and continuously measures conductivity via several electrodes. It is connected with a standard patch cable and therefore can easily be "patched in" to existing wiring. The LeakageSensor-ROPE additionally has a sensor cable. The integrated sensors in the cable detect water ingress all along the rope at an early stage. The LeakageSensor is cascadable up to five times and therefore also suitable for large rooms.



Item number

KLS03 KLS03-ROPE-10 KLS03-ROPE-20



The LeakageSensor detects water ingress quickly and reliably

lensing

nl water on approx. 20cm length ng to EN60529

ROPE-10), 1kg (KLS03-ROPE-20)

ble, 1x case fitting for cascading



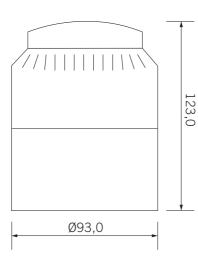
Sounder

The sounder can be mounted inside or outside of the building. It is a combination signaling device and a significant component of a fully functioning alarm chain. In case of an alarm, the sounder creates a very loud acoustic signal of up to 110 dB sound pressure. In addition to the acoustic signal, a visual alarm is generated by a colored flashing light (flash frequency: 1 Hz) that can be seen far into the distance. Due to its robust ABS housing, the compact alarm module can also be used in outdoor areas. It is connected directly to the Kentix system port via a RJ45 patch cable (10m included in delivery).



Products

Туре	Item number
Sounder	KFLASH1



Technical Details

Connectivity	Kentix system port via included patch cable 10 m (RJ45)
Power supply	Via Kentix system port or included power injector
Sound pressure	110 dB
Alarm flash LED	Red, flash frequency 1Hz
Monitoring	Sabotage monitoring
Temperature range	-10°C up to +55°C / max. 95%rF, non-condensing
Connecting cable	max. 50 m
Internal RJ45 plug	For Kentix system port
Housing	ABS, IP43
Weight	approx. 1kg
Size	Ø93 mm, H123 mm
Delivery content	Sounder, 10m connection/patch cable, 1x power adapter 24/1A, RJ45 adapter 3-fold





stable.



Products

Туре	Item number
Dust-/Dirtsensor	KDS01

Technical Details

Connectivity	At Kentix system port via included patch c
Power supply	Via Kentix system port
Monitoring	pollution
Temperature range	0°C to +60°C
Weight	approx. 0,1 kg
Size	79 x 44 mm
Delivery content	Dust-/Dirtsensor, 5 m connection cable

Installation info

The installation is typically carried out on surfaces where increased dust/dirt deposits are to be expected, such as the floors of IT racks, raised floors in data center. A magnetic tape is attached to the bottom of the sensor. This allows the sensor to be easily fixed to the surface to be monitored. Select an area where most of the dust and dirt deposits occur or are expected to occur as a mounting location. After a release due to dirt, the sensor can be cleaned again with a slightly moistened cloth. The dust catchers can also be replaced after triggering.

Magnetic door contact

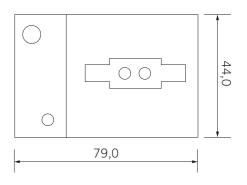
Opening detector for direct connection to Kentix system port via RJ45.

Technical Details

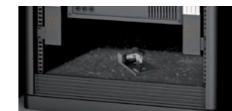
ctivity	At Kentix system port
t / Size	ca. 0,1 kg / 11 x 12 x 48 mm
ry content	Magnetic door contact,
	Mounting material

Dust-/Dirtsensor

The optical dust/dirt sensor is used to detect the degree of contamination in data centers, IT racks and distributors. It is connected directly to the Kentix system port via an RJ45 patch cable (5 m scope of delivery). The sensitivity is adju-



ed patch cable 5 m (RJ45)



Mounting example in IT rack



Products

Туре	Item number
Mounting frame	KRA-01

Accessories

Туре	Item number
Gain magnet antenna	KMA3

Rack mounting frame

1-U mounting frame made of sheet metal for mounting up to four Kentix devices in a 19" IT rack. The following devices can be mounted KAM-BASIC/PRO (1-piece), KXP-16, KMS-LAN, KMS-LAN-RF, KMS-RF, KMS-RFB (4-pieces). By placing them in the rack, the devices are protected against unauthorized access and additional cabling in the server room is also not required.

Technical Details

Mounting	Directly in the 19" rack
Weight	approx. 0,4 kg
Heght	44 mm
Delivery content	Rack mounting frame, screw set 3 mm



Products	
Туре	Item number
Magnetic mounting bracket	KRA-02

Magnetic mounting bracket

Magnet holder for mounting a Kentix device on metallic surfaces, e.g. in a 19" IT rack. Suitable for KAM-BASIC/ PRO, KXP-16, KMS-LAN, KMS-LAN-RF, KMS-RF, KMS-RF-BAT, KMS-TI.

Technical Details

Technical Details

Mounting	On metallic surfaces, e.g. in a 19" rack
Weight approx.	0.4 kg
Height	40 mm
Scope of delivery	magnetic mounting bracket, screw set
	3mm

Rack mounting bracket



1-U Mounting bracket made of sheet metal for mounting Kentix MultiSensors in 19" IT rack. Suitable for mounting KMS-LAN, KMS-LAN-RF, KMS-RF, KMS-RFB, KAM, KPM-100 The sensor is mounted in the optimum downward orientation. The devices are protected against unauthorised access by being housed in a rack. Additional cabling in the server room is also not required.

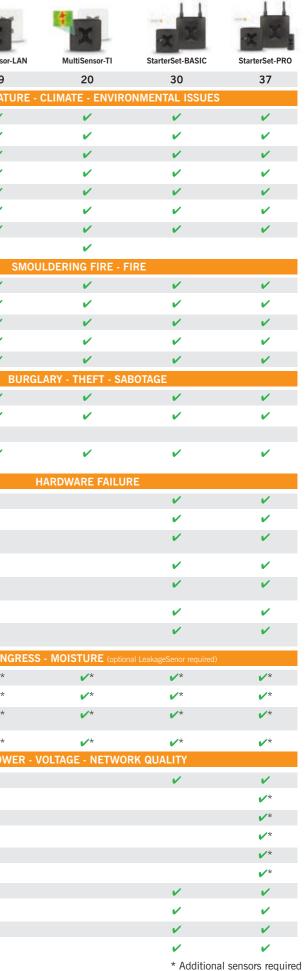
Products

Туре	Item number
Rack mounting bracket	KRA-03

Mounting	Directly in the 19" rack
Weight	approx. 0,15 kg
Height	44 mm
Delivery content	Rack mounting bracket, screw set 3 mm

Threat-Matrix – Which device monitors which functions?

Number of monitored threats	MultiSensor-RF	MultiSenso
	20	TEMPERA
Overtemperature	 	~
Undertemperature - frost	v	~
Defective air-conditioning	V	 ✓
Defective dehumidification	 	~
Defective climate control	v	v
Clogged filters	v	~
General malfunction of air-conditioning	v	 ✓
Bad air quality		
Smouldering fire on cables, devices	v	 ✓
Smouldering fire in electricity distributors	 	~
Charred, defective electronic components	v	 ✓
Fire - Combustion gases	 Image: A set of the set of the	~
Battery degassing (H-hydrogen)	v	 ✓
Unauthorized access	V	×
Intrusion	v	~
Attempted intrusion - securing perimeters		
Access to unauthorized sections (racks, cabinets)	 	 ✓
Power loss - defective cables		
Loss of active system components		
Loss of services (HTTPS, SMTP, VPN, DB, etc.)		
Performance loss		
Sabotage/theft of active components		
Defective fans		
General malfunction of active components		
		WATER IN
Open windows	✓*	✓*
Defective plumbing in the room	✓*	✓*
Defective plumbing in adjoined rooms and floors	✓*	✓*
Leakage - climate or heating systems	✓*	✓*
		PO\
Power failure	v	
Overvoltage - peak		
Flickering - short term power loss		
Undervoltage		
Deviation of power/UPS frequency		
Overcurrent - overload		
UPS operation		
UPS defect/malfunction		
UPS battery failure		
UPS residual maturity and capacity		



System components Accessories





Device	KeyPad-Touch	Sounder	DustSensor
Туре	ККРТ	KFLASH	KDS01
Function	Touch keyboard for access control via PIN or RFID	Flashing alarm siren for optical-acoustic signalling of alarms	Sensor for the detection deaf deposits
Installation site	Door, Room	Room	Rack, raised floor
Room/system area	per door	500 m ²	-
Configuration	AlarmManager	AlarmManager, MultiSensor-LAN/TI	AlarmManager, MultiSensor-LAN/TI
Connection to Kentix system port	×	 	 ✓
ZigBee (radio)	 ✓ 	×	×
RFID (MIFARE® DESFire, Legic®)	 ✓ 	×	×
Integrated Web-Server (HTTP)	×	×	×
Ethernet connetction (10/100Mbit)	×	×	×
PoE (Power over Ethernet)	×	×	×
SNMP MIB (V2/3)	🗸 (KAM)	🗸 (KAM)	🖌 (KAM)
SNMP Trap (V2/3)	🗸 (KAM)	🖌 (KAM)	🗸 (KAM)
External power supply	Battery (AAA)	×	×
Alarm inputs (potential-free)	×	×	×
Alarm inputs (potential-loaded)	×	×	×
Analog inputs (4-20 mA, 1-10 V)	×	×	×
Switching outputs (open collector)	×	×	×
Sabotage monitoring	 ✓ 	×	×
Approvals	CE	CE	CE
Size (L x W x H in mm)	90 x 135 x 19	Ø93, H123	79 x 44

LAN PoE	LAN POE	LAN PoE	
I/O-Modul	l/O-Modul	I/O-Modul	LeckageSensor
KI07052	KI07053	KI07017	KLS03
Extension module for connecting external alarm messages	Extension module for connecting external alarm messages	Extension module for connecting external alarm messages	Sensor for the detection of water leaks
Distribution	Distribution	Distribution	Floor, raised floor
•	-	-	up to 100 $m^2, cascadable$ up to 500 m^2
AlarmManager Web-Server	AlarmManager Web-Server	AlarmManager Web-Server	AlarmManager, MultiSensor-LAN/TI
×	×	×	~
×	×	×	×
×	×	×	×
v	V	 ✓ 	×
¥	V	 ✓ 	×
 ✓ 	\checkmark	 ✓ 	×
🖌 (KAM)	🖌 (KAM)	🖌 (KAM)	🗸 (KAM)
🖌 (KAM)	🖌 (KAM)	🖌 (KAM)	🗸 (KAM)
×	×	×	×
×	16	×	×
8	×	×	×
×	×	8	×
8	×	4	×
×	×	×	×
CE	CE	CE	CE
72 x 123 x 35	72 x 123 x 35	72 x 123 x 35	80 x 80 x 80



StarterSets

With the Kentix StarterSets, you get a complete package set can be expanded with additional MultiSensor-RF for quick and easy access to the innovative Kentix moni- (up to 200). Updating to the PRO-version is also postoring technology. This way, you can monitor all critical sible later on, in case network-enabled sensors (Multiphysical threats with just one system. Kentix devices of- Sensor-LAN) should be required for the expansion. fer the administration of up to 1.000 user accounts for the alarming.

The StarterSet-BASIC contains everything you need in up to 10.000m² in size as well as for distributed sites. AlarmManager-BASIC and wireless MultiSensor-RF. The be expanded with additional MultiSensors immediately.

The StarterSet-PRO contains all the components you need for the monitoring of rooms and racks from 20m² order to monitor racks and IT rooms of up to 20m²: an Due to the included AlarmManager-PRO, the system can

StarterSet-BASIC

Security for small IT rooms with 4G alarm center



Products

Туре	Housing color	Item number
StarterSet-BASIC	Black	KSS-BASIC-B
StarterSet-BASIC	White	KSS-BASIC-W

Accessories

Туре	Item number
PoE Injector	KPOE100EU

StarterSet-PRO

Security for distributed IT rooms with 4G alarm center



Products			Accessor
Туре	Housing color	Item number	Туре
StarterSet-PRO	Black	KSS-PRO-B	PoE Injector
StarterSet-PRO	White	KSS-PRO-W	

Technical Details

See integrated products of the StarterSets		
	AlarmManager-Basic	Page 21
	AlarmManager-PRO	Page 21
	MultiSensor-LAN-RF	Page 29
	MultiSensor-DOOR	Page 38

PoE

More info on the system components on pages 28+29

KPOE100EU

Application example: Data center with adjoined utility rooms

Central monitoring of a data center with 300 sqm and several server racks as well as UPS and climate systems that are to be integrated via existing signal contacts

For the data center, a Kentix AlarmManager-PRO and potential water ingress, a LeakageSensor is connected to several MultiSensor-LAN are required. The MultiSensors are connected to a PoE switch via the existing infrastructure and are mounted on the server room ceiling with mounting brackets. All measured values are sent to The monitoring can also happen via external network the AlarmManager via the network. One MultiSensor-LAN covers an area of up to 20sqm. In each utility room, one MultiSensor-LAN is used. In order to monitor SNMP interface.

the MultiSensor. External sites such as climate or UPS systems are integrated via an I/O Module.

monitoring if desired. In this case, the AlarmManager provides all measured values and system states via the

Parts list/Order assistance Data Center

Туре	Item number	Quantity	Туре
AlarmManager-PRO	KAM-PRO	1	Mult
MultiSensor-LAN	KMS-LAN	15	Leak

Parts list/Order assistance Utility rooms

uantity	Туре	Item number	Quantity
	MultiSensor-LAN	KMS-LAN	1 each
5	LeakageSensor	KLS03-ROPE	1 each
	I/O Module	KI07053/52/17	1 each

Application example: Container data center

Scalable monitoring solution for container or outdoor data centers in which systems with high availability requirements are operated

For the first container, an AlarmManager-PRO plus a that are connected via the infrastructure can easily be MultiSensor-RF are required. The MultiSensor is sup- integrated into the system. In each one of them, a plied with power via a separate power adapter and MultiSensor-LAN-RF plus LeakageSensor and KeyPad mounted on the container ceiling with mounting bra- is used. The MultiSensor is connected via the network ckets. It is connected to the AlarmManager with a to a PoE-enabled switch. patch cable. All measured data are transmitted via radio to the AlarmManager. A LeakageSensor monitors The monitoring of the entire system happens centrally potential water ingress and a KeyPad on the interior via the AlarmManager. Integrating it into a central logs all access to the container. Additional containers monitoring tool is also possible.

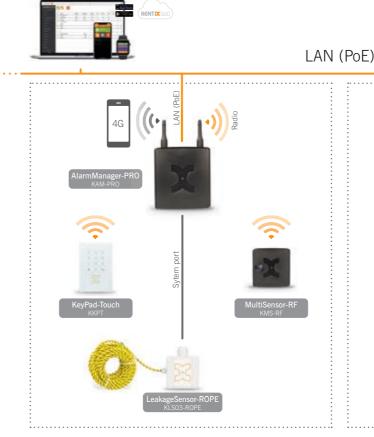
Parts list/Order assistance First Container

Туре	Item number	Quantity	Туре	Item numer	Quantity
AlarmManager-PRO	KAM-PRO	1	MultiSensor-LAN-RF	KMS-LAN-RF	1 each
MultiSensor-RF	KMS-RF	1	LeakageSensor	KLS03-ROPE	1 each
LeakageSensor	KLS03-ROPE	1	KeyPad-Touch	KKPT	1 each
KeyPad-Touch	KKPT	1			

LAN (PoE)

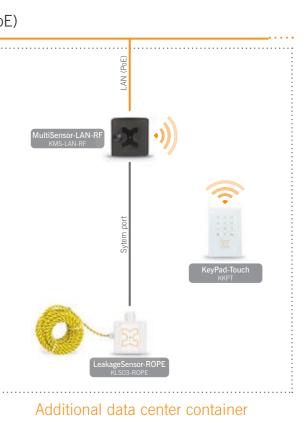
Data center

Utility rooms



First data center container

Parts list/Order assistance Additional containers



Artificial intelligence ensures best protection against manipulation and high measuring accuracy

Kentix SmartXcan: Wirksamer und DSGVO konformer Schutz vor Virenverbreitung



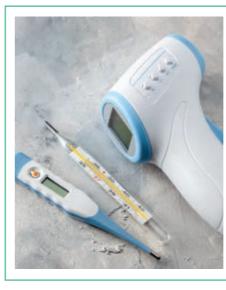


- **secure:** exact, contactless measurement, EU-GDPR conform operation possible
- **intuitive:** Self-explanatory user guidance
- **fast:** Throughput up to 700 persons/hour ■ Tamper-proof through artificial intelligence
- Stand alone operation or manual or automated inlet control possible
- Provision of anonymous measurement data for hotspot detection
- efficient plug & play installation through PoE

Detect infected persons and avoid hotspots early

Identification of infected persons is crucial

In order to permanently reduce the risk of spreading viral diseases (COVID-19, influenza, etc.) in public areas and at the same time to make a better forecast of emerging geo-hotspots, it is necessary to carry out an early identification of infected persons. The access of these persons to crowds of people of any kind must be prevented and it must be possible to supply collected data in real time, in compliance with EU-GDPR, to AI-supported analysis databases.



Fever measurement as effective and pragmatic method

Fever is a non-obligatory, non-specific symptom, but it is a very useful screening tool for infections such as the corona virus. Any infection that is detected early can potentially save several lives. For this reason, fever measurement plays an important role in the detection of potentially infected persons, because:

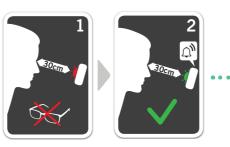
- sity)

Simple measure for many applications

An automated, safe and intuitive fever measurement at central, preferably electrically controlled access points to crowds of people is an important measure that has been tested in many risk regions:

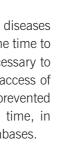
- to provide long-term and sustainable protection against viral diseases
- to re-establish social and economic contacts while controlling the risk of epidemics flaring up again
- restore public confidence in public security

Simple fever measurement in 2 Steps





Direct feedback on the device





Fever is one of the most com mon initial diagnoses of COVID-19. (according to WHO, Robert Koch Institute, Johns Hopkins Univer-

the body temperature due to the increasing immune defence already rises before the onset of usual symptoms

detection can usually take place even with a low virus load









Additional control via Web-GUI possible



Products

Туре	Item Number
SmartXcan	KMS-TI-FS-B
SmartXcan with RFID	KMS-TI-FS-RFID-B
Plug'n'Play Starter Set	KSS-TI-FS-B

Technical details

User Interfaces	1. Contactless operation on the device with display of the measurement result via LED
	2. Integrated web software with add. information on measurement results and configuration
Speed of the	0.6 seconds after head position detection
temperature measurement	Typical measuring time per person (approach - measure - step away) approx. 5 seconds
Software	Kentix OS, stand-alone operation with integrated web server (HTTPS)
connection option	Connection via network to AlarmManager-PRO
Sensor - IR Thermal Array	1024 pixel infrared array, measuring range 0 to 100°C, germanium optics, calibration tempe-
	rature 35°C, reproducibility ± 0.3 °C, active temperature compensation, emissivity factor 0.97
Sensor - Distance	Distance measurement with resolution of 1mm, Class 1 eye safe laser measurement in
	accordance with the latest standard IEC 60825-1:2014-3
Buzzer	Acoustic measurement confirmation via buzzer, 85dB, 2.3kHz
Sensor - External output	2x signal output (e.g. measurement OK/NOK) to control doors, turnstiles etc., wiring via
	separate KIO3 power adapter with relay outputs
LED indication	Temperature scale with 8x LED for temperature indication and display of four temperature
	ranges
	Illuminated ring with 4x LED for focusing and measurement display
	LINK/ACT to Ethernet socket
Ethernet - LAN	10/100MBit, PoE (Class 1, approx. 2W) for power supply
SD Card	Integrated Micro SD card holder as additional memory for image recording, up to 128 GB
SNMP	SNMP V2/3 (get/set), SNMP Traps (Simple Network Management Protocol)
ReST API	ReST API with JSON objetcs (HTTPS), Webhooks with free datastructure
Power supply via PoE	12-72VAC/DC power-consumption ca. 1.5W, PoE class 1 (Power over Ethernet)
KENTIX System port	RJ45 for connecting external Kentix expansion modules
Housing	Material: PS 120 x 120 x 50 mm weight approx. 150g, protection class IP30 Color: Black
Environmental conditions	Temperature 0 - 50°C Air humidity 5-95%, non-condensing
Content of delivery	SmartXcan, metal wall bracket, mounting set, slim-line patch cable 3m
Accessories	PoE injector (KPOE150S)
	IO adapter with power supply unit for controlling external devices (KIO3)
Audits	CE

Scanner and Smart User Interface

Ethernet

(PoE)

Micro

SD Card

KMS-TI-FS-STAND1

Item Number

KPOE100EU

KI03

45,0

Zubehör

Туре

Pedestal

System port

POE Injector / power supply

I/O-Modul with Relais

Voluntary self-monitoring of body temperature with the SmartXcan

Keeping offices, schools or authorities open is essen- This gives employees or students have the opportunitial. Kentix therefore recommends offering voluntary ty to take their temperature several times a day, as self-monitoring of body temperature everywhere in the recommended by public health authorities. With the workplace where many people pass by, for example quick-to-use plug-and-play starter set, facilities of all at toilets, in break rooms or in office corridors by the kinds can easily carry out contactless fever screenings. printer.

Industry, Production

> 0



Offices





Banks





Retirement Homes

Daycare centres, Schools, Universities



Use in the office for GDPR-compliant self-screening for employees











authorities



Logistics



Leisure and sports facilities



Kentix DoorLock® - Access securely networked

Who has access to which rooms and at what time? With large access systems with little mounting efforts for any the Kentix DoorLock® you have full (access) control: application. With several variants of locking components and indivi-

dual time-user-profiles, you establish an access solution Access control with video recording according to your needs in no time. Due to the connecti-If desired, any door in the system can be connected to on to Kentix360, you have all of your rooms at a glance an IP camera that will be triggered any time the door is at all times – even on the go via app for smartphone unlocked or tampered with. The recorded image series or tablet. And if a problem does occur after all, Kentix is saved together with the according user data. Noninforms you immediately and reliably so that you can act authorized access attempts are immediately e-mailed to as quickly as possible. the responsible persons with the picture series attached.

The advantage of the Kentix access control system is the easy networking and integration into IT networks. Retrofitting doors is simple and can be done without special tools or additional constructional measures. The Kentix DoorLock® includes wireless as well as wired components that can be put together to one centrally managed system. This way, you can implement small as well as



With a wireless locking component ① and the AccessManager ②, a complete remote controllable access solution can be set up without great mounting efforts.



doors. Up to 16 door openers per AccessManager

with approx. 25m radio range.

Application possibilities:

- Office and administrative rooms
- Industry, production and warehouse facilities
- Container sites and distributed properties
- Server rooms, data centers and IT cabinets
- Hospital, laboratories and medicine cabinets
- Mission-critical Infrastructure

StarterSet-DoorLock -The easiest starter solution for your introduction to online access control

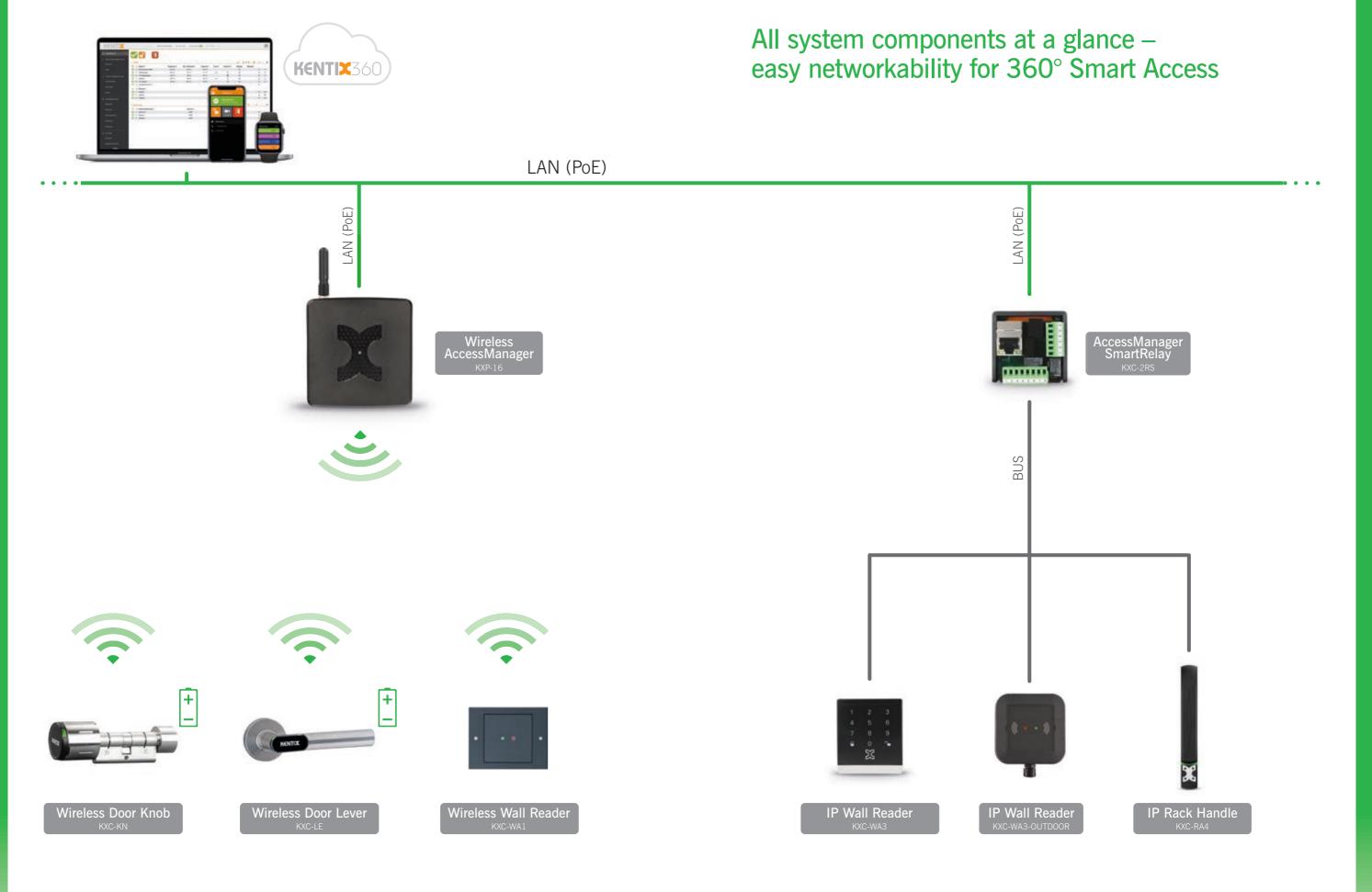


AccessManager, Wireless Door Knob and Master Card Set

For more info on the StarterSets see page 92

Simple control with any browser

control via Kentix 360. Kentix App for iPhone and Android available



Smart Access

Smart Access

Everything at a glance - anytime and from anywhere

With the AccessManager, you set up a complete IT networkable access solution in no time. Due to the interconnection of several AccessManager, basically any arbitrary number of doors can be connected to one system, even across different locations. Via your web browser, you set up time and user profiles, unlock doors remotely and have the entire access log at a glance always. No additional software is required for the configuration.

The access log book offers an overview of all access including failed attempts to unlock a door (for example due to a lack of sufficient authorization). This way, you can always see who has entered a room. With easy filter functions you can limit the selection to specific days, doors and users.

With the help of access and time profiles you can determine in detail which user is authorized to open which doors and at what times. An access profile is always connected to a selected time profile and to one or several doors. Each user can be assigned any desired number of access profiles. This creates maximum flexibility even in larger systems without making it complicated or confusing.

With the integrated Kentix360 you have your system at a glance even on the go - no matter when or where.



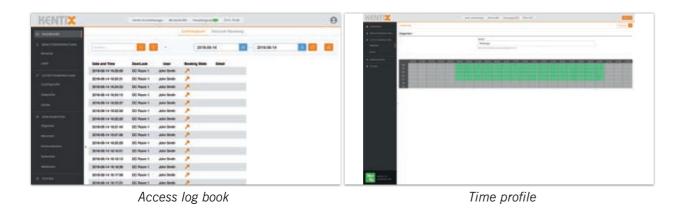
Your service provider is by the door but nobody is there to open it for them? An employee forgot their RFID keyfob at home? Simply unlock the door via remote control. Moreover, with the app for smartphone and tablet you can arm or disarm alarm zones via the Kentix AlarmManager. Potential attempts of sabotage can also be seen in the system with Kentix360 so that you can act as quickly as possible in case of a threat.



The Kentix DoorLock offers the integration of the direc- can manage even ever-changing authorizations with tory services Microsoft Active Directory (AD) and LDAP. little effort. The authorization accounts in the Kentix DoorLock are simply imported and synchronized which saves time Importing CSV files with user data is also possible. and costs with the access management. Authorizations Therefore, large amounts of users can be imported into are therefore managed centrally and are granted or dethe Kentix DoorLock system easily and quickly, even nied by means of user profiles. with new systems that have no connection to directory services

The web-based login to the Kentix access system always happens via the authentication with the directory service; thereby multiple passwords become a thing of the past. Aside from the mere authorization, you can also determine centrally via Active Directory who has access where and when. If an employee's role in the company changes, the access control system receives this information automatically from the central server. This makes access management a lot easier even for companies that have ever-changing users and authorizations. Due to a simple regular comparison and short updates via Active Directory, the system administrator





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Control is good, video is better

If desired, the Kentix DoorLock integrates IP cameras. When someone unlocks a door with an RFID medium or tampers with the locking component, an IP camera is triggered that records a series of pictures. These pictures are saved in the log book and can be accessed any time via the according entry. Thereby, any door in the system can be connected to an IP camera so that beside the usual user data, any access is combined with a video sequence.



LAN

RADIO

PoE

LDAP



Wireless AccessManager

With the Wireless DoorLock AccessManager, time-user profiles can be easily managed for both small and large projects. An AccessManager manages up to 16 doors and an unlimited number of users with the appropriate time-authorisation profiles via web browser (HTTPS). AccessManagers can be networked with each other without limitation. Power is supplied via Power over Ethernet (PoE). The integration of Microsoft Active Directory (AD) and LDAP makes access management particularly convenient, and the connection to Kentix360 allows the entire system to be controlled from anywhere and at any time via app.



Products

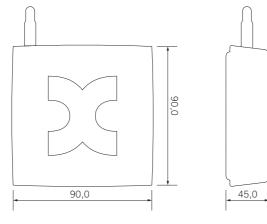
Туре	Housing color	Item number
Wireless AccessManager	Black	KXP-16-B
Wireless AccessManager	White	KXP-16-W

Accessories

	Housing color	Item number	Туре	Item number
ger	Black	KXP-16-B	PoE Injector	KPOE100EU
ger	White KXP-16-W	KXP-16-W	I/O Module with relay	KI03
			Gain Magnet Antenna	KXP-ANT-EXT1
			USB Dektop Reader	KXC-DR1-MIFARE
ils			Magnet Türkontakt	KDC1-W

Technical Detai

Connectivity	LAN (PoE) – Integrated web server
Ethernet	10/100 Mbit, integrated web server, communication ports: 80/443
Radio	868 MHz, encryption AES 128 Bit
Number of doors	Up to 16 wireless DoorLocks (doors) programmable
SD card	Micro SD card slot for cards up to 128GB
Kentix system port	RJ45, for connecting external Kentix plug'n'play modules
Switch output (system port)	2x Open Collector 0.1A/24V, optional: I/O Module (KIO3) 2x switch relay 1A/24V
Alarm input (system port)	2x alarm input (potential-free), optional: I/O Module (KIO3)
SNMP	SNMP (V2/3), SNMP Traps (V2/3)
Power supply	PoE 12-72VAC/DC power consumption approx. 1.5W, PoE Class 1
Housing	Protection class IP20, 90 x 90 x 45 mm; weight approx. 100g; colors: black, white
Environmental conditions	Temperature 0 – 50°C, humidity 5-95%, non-condensing
Delivery content	AccessManager, antenna, mounting bracket, mounting material, 3m SlimLine cable
Approval	CE







Wireless Door Knob DoorLock-DC

DoorLock-DC BASIC

DoorLock-DC PRO

Thanks to the installation of the wireless Door Knob with a Euro profile cylinder, conventional DIN Euro profile locks can be used and practically no constructional measures are required. The Wireless Door Knob is suitable for all standard locks with DIN Euro profiles. Thereby, it is a cost-efficient solution for new as well as existing buildings. Different RFID mediums in MIFARE® DESFire® technology are available as keys. The Door Knob runs on two batteries (CR2) that can only be changed or removed with a special authorization in order to prevent tampering.



Products

Туре	Protec. class	Item nr.	Туре	Delivery content	Item number
DoorLock-DC BASIC for interior doors	IP65	KXC-KN1	Low Power Adapter	1 piece	KXC-BAT2
DoorLock-DC BASIC for exterior doors	IP66	KXC-KN2	Spare batteries	2 pieces	KXC-CR2-2
DoorLock-DC PRO for interior doors	IP55	KXC-KN4-IP55	Maintenance oil	1 piece	KXC-PLS50ML
DoorLock-DC PRO for exterior doors	IP66	KXC-KN4-IP66			

Accessories

Technical Details

Function	Electronic door knob with RFID and wireless networking
Room/site size	One door for interiors or exteriors or both respectively
Radio frequency	868 MHz, encryption AES 128 Bit
Battery life (transactions/years)	Up to 45.000 transactions or 4 years
RFID reader	MIFARE® DESFire® 13,56MHz
Temperature range	-20°C up to +65°C
Configuration	Via Kentix AccessManager (KXP-16-B/W)
Radio range	Approx. 25m
Batteries	KXC-KN1/2 2x CR2 (3V), KXC-KN4 1x CR2 (3V))
Profile cylinder	DIN18252, different lengths available starting at 30 mm in 5 mm increments
Size	See dimension drawing on the right
Protection class	KXC-KN1 (IP55), KXC-KN2 (IP66), KXC-KN4-IP55 (IP55), KXC-KN4-IP66 (IP66)
Delivery content	Wireless Door Knob, Batteries
Derivery content	
Approval	CE, DIN15684

DoorLock-DC PRO - compact radio knob for interior and exterior doors







Hint: Always include the matching profile cylinder in your order.





Profile cylinder for assembly in standard doors with Euro profile cylinder

Profile half cylinder for assembly in cabinet doors with Euro profile cylinder

You will find an ordering assistance on how to measure your cylinder on the following pages.

Smart Access

The DoorLock-DC PRO (ART: KXC-KN4) has a compact, electronic external knob with a diameter of only 31mm and an integrated RFID reader for MIFARE®DESFire® media. The inside is equipped with a mechanically fixed rotary knob. The KXC-KN4 is available for inside and outside doors. Both variants comply with resistance class 2 according to DIN 18252. The variant for external doors also has increased weather protection (IP66). During development, the operating ergonomics have also been further improved, by shortening the engagement time and thus ensuring a fast booking and door opening is possible. The DoorLock-DC PRO is ideal for exterior and end doors with increased access frequency and high safety requirements. Due to the compact design, it can be mounted on frame doors with glass panels can be used, because even with small frame distances sufficient space remains between cylinder and frame.



Ordering assistance for Kentix DoorLock-DC

(Door Knob + Profile cylinder)

Easy selection of the Wireless Door Knob with matching profile cylinder in two steps



Select required

Wireless Door Knob





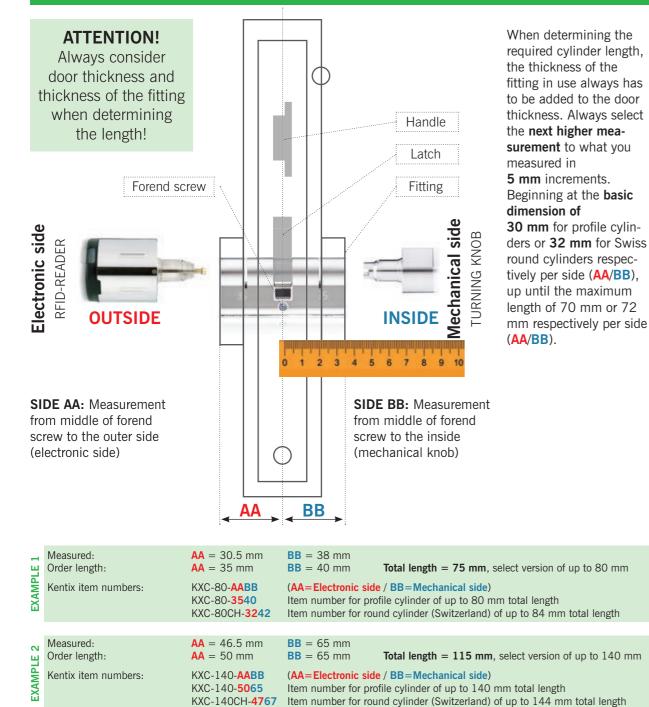


Only one Master Card Set required per site

Measuring the door panel for the profile cylinder

Select profile cylinder

matching the door



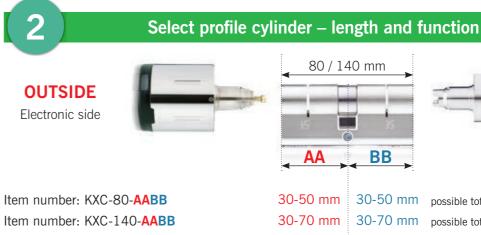
Select Wireless Door Knob – Interior door, exterior door or compact

OUTSIDE RFID-READER



Select Wireless Door Knob

DoorLock-DC BASIC for interior doors (IP55) DoorLock-DC BASIC for exterior doors (IP66) DoorLock-DC PRO for interior doors (IP55) DoorLock-DC PRO for exterior doors (IP66)



Profile cylinder for standard doors with Euro profile cylinder: Sele

Profile cylinder standard up to 80 mm cylinder length with mechanic Profile cylinder standard up to 140 mm cylinder length with mechani Profile cylinder with anti-panic-function up to 80 mm cylinder length Profile cylinder with anti-panic-function up to 140 mm cylinder lengt Profile half cylinder up to 50 mm, incl. forend screw

Profile half cylinder up to 50 mm with spring reset LEFT, incl. forend Profile half cylinder up to 50 mm with spring reset RIGHT, incl. foren Round cylinder (Switzerland) for standard doors with Swiss round Round cylinder (Switzerland) standard up to 84 mm cylinder length Round cylinder (Switzerland) standard up to 144 mm cylinder length Round half cylinder (Switzerland) up to 50 mm, incl. forend screw

Possible lengths profile cylinder:

AA BB
30 30
35 35
40 40
45 45
50 50
55 55
60 60
<mark>65</mark> 65
70 70





INSIDE TURNING KNOB

Item number

KXC-KN1 KXC-KN2 KXC-KN4-IP55 KXC-KN4-IP66



INSIDE

Turning knob

۱	30-50 mm	possible total length 60 - 80 mm (AA+BB)
۱	30-70 mm	possible total length 85 - 140 mm (AA+BB)

ect matching length	Item number
cal turning knob, incl. forend screw	KXC-80-AABB
nical turning knob, incl. forend screw	KXC-140-AABB
and mech. turning knob, forend screw	KXC-80AP-AABB
th and mech. turning knob, forend screw	KXC-140AP-AABB
	KXC-50-AA
l screw	KXC-50-AA-SRL
nd screw	KXC-50-AA-SRR
cylinder: Select matching length	Item number
with mech. turning knob, forend screw	Item number KXC-80CH-AABB
,	
with mech. turning knob, forend screw	KXC-80CH-AABB

SPECIAL LENGTHS UPON REQUEST!

Possible length Swiss round cylinder: AA BB

Type Wireless Door Knob Version

KXC-KN1	DoorLock-DC BASIC for interior doors (IP55)
KXC-KN2	DoorLock-DC BASIC for exterior doors (IP66)
KXC-KN4-IP55	DoorLock-DC PRO for interior doors (IP55)
KXC-KN4-IP66	DoorLock-DC PRO for exterior doors (IP66)

	Type profile cylinder	Max. total length (AA + BB in mm)	Variante	Length outside (mm)	Length inside (mm)
	KXC-	80	- (Standard)	AA	BB
2		140	AP- (Anti-Panik)		
		144	CH- (Switzerland))	

		WIRELESS KNOB	PROFILE CYLINDER			
POS	Door name	Type Interior/Exterior/Compact	Type max. total length	Version	AA (mm)	BB (mm)
-	Sample door entrance	 ✓ KXC-KN1 (IP55) □ KXC-KN2 (IP66) □ KXC-KN4 (IP55) □ KXC-KN4 (IP66) 	☐ KXC-50 (Halbzyl.) ☐ KXC-80 ☑ KXC-140	☑ - □ AP- □ CH-	41 45	56 60
1		□ KXC-KN1 (IP55) □ KXC-KN2 (IP66) □ KXC-KN4 (IP55) □ KXC-KN4 (IP66)	□ KXC-50 □ KXC-80 □ KXC-140	□ - □ AP- □ CH-		
2		□ KXC-KN1 (IP55) □ KXC-KN2 (IP66) □ KXC-KN4 (IP55) □ KXC-KN4 (IP66)	□ KXC-50 □ KXC-80 □ KXC-140	□ - □ AP- □ CH-		
3		□ KXC-KN1 (IP55) □ KXC-KN2 (IP66) □ KXC-KN4 (IP55) □ KXC-KN4 (IP66)	□ KXC-50 □ KXC-80 □ KXC-140	□ - □ AP- □ CH-		
4		□ KXC-KN1 (IP55) □ KXC-KN2 (IP66) □ KXC-KN4 (IP55) □ KXC-KN4 (IP66)	□ KXC-50 □ KXC-80 □ KXC-140	□ - □ AP- □ CH-		
5		□ KXC-KN1 (IP55) □ KXC-KN2 (IP66) □ KXC-KN4 (IP55) □ KXC-KN4 (IP66)	□ KXC-50 □ KXC-80 □ KXC-140	□ - □ AP- □ CH-		
6		□ KXC-KN1 (IP55) □ KXC-KN2 (IP66) □ KXC-KN4 (IP55) □ KXC-KN4 (IP66)	□ KXC-50 □ KXC-80 □ KXC-140	□ - □ AP- □ CH-		

Wireless Door Lever see page 62

KENTIX

KENTIX

Wireless Door Knob see page 56



SmartAccess



Wireless Door Lever DoorLock-LE

The wireless Door Lever is compatible with merely all European lock standards. The different versions allow the use in all common doors, such as wood, steel and aluminum as well as narrow frame doors with a backset of more than 20 mm. It can be mounted easily and without special tools which makes retrofitting very simple. The handling is intuitive thanks to plain LED signaling. Moreover, the Door Lever offers a number of handy functions such as time switches/day access or permanent engagement (toggle function).



Technical Details

Function	Electronic door lever with RFID and wireless networking
Room/site size	One door
Radio frequency	868 MHz, encryption AES 128 Bit
Battery life (transactions/years)	Up to 100.000 transactions or up to 6 years
RFID reader	MIFARE® DESFire® 13,56MHz
Temperature range	-20°C up to $+65°C$
Configuration	Via Kentix AccessManager (KXP-16-B/W)
Radio range	Approx. 25m
Batteries	1x CR123 (3V)
Door thickness	32-56 mm (standard), optional up to 110 mm, ATTENTION: For doors
	thicker than 56 mm, please order matching square pin (8/8.5/9 mm)
Material	Lever in stainless steel
Approval	CE, DIN15684
Protection class	IP55/IP66 for interiors/exteriors available see ordering assistance
Delivery content	Radio door lever, mech. door lever, rosettes, batteries (1xCR123)

Accessories

Туре	Delivery content	Item number
Spare battery	1 piece	KXC-CR123

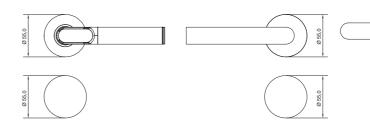
Select required product on page 68

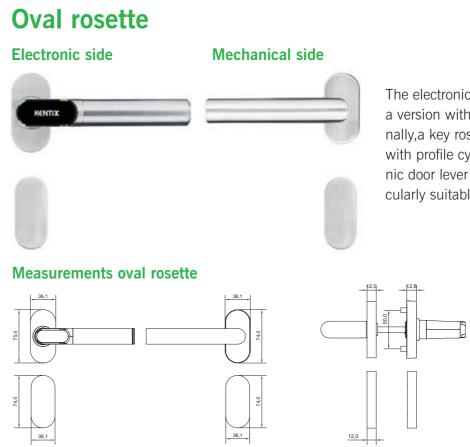
Round rosette



The electronic door lever is available in a version with a round rosette. Additionally, a key rosette is available, either blind or with profile cylinder punch.

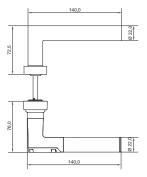
Measurements round rosette





In combination with special glass door locks, the electronic door lever with round rosette is suitable for use in all-glass doors. Ø 22,0

The electronic door lever is available in a version with an oval rosette. Additionally,a key rosette is available, blind or with profile cylinder punch. The electronic door lever with oval rosette is particularly suitable for tubular frame doors.





Wireless Door Fitting DoorLock-LE

The wireless Door Fitting can be mounted in merely all standard doors without cabling or special tools. Existing DIN holes can usually be used. The Door Fitting manages all access electronically and can be controlled offline or online via a radio network. It integrates smoothly into the Kentix DoorLock portfolio and is available in different versions, for example for fire doors.

Door Fitting wide

Electronic side Mechanical side

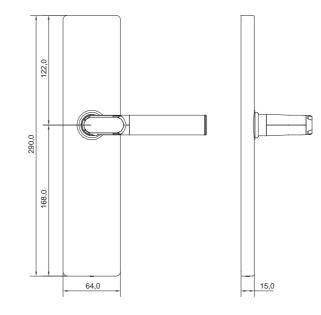


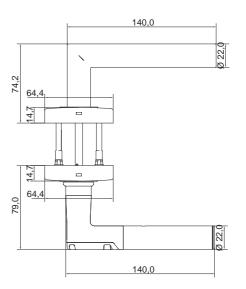


Measurements Door Fitting wide

Technical Details

Function	Electronic door fitting with RFID and wireless networking
Room/site size	One door
Radio frequency	868 MHz, encryption AES 128 Bit
Width door fitting	Wide: 64,4 mm; Slim: 42,4 mm
Protection class	IP55 for interiors
Material lever	Stainless steel
Door thickness	32-56 mm; ATTENTION: For doors thicker than 56 mm, please order matching
	square pin (8/8,5/9 mm)
Battery life (transactions/years)	Up to 100.000 transactions or up to 6 years
RFID reader	MIFARE® DESFire® 13,56MHz
Temperature range	-20°C up to +65°C
Configuration	Via Kentix AccessManager (KXP-16-B/W)
Radio range	Approx. 25 m
Batteries	1x CR123 (3V)
Approval	CE, DIN15684
Delivery content	Wireless Door Fitting, mechanical door fitting, incl. batteries (1x CR123)

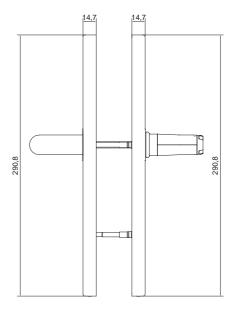




Accessories

Туре	Delivery content	Item number
Spare battery	1 piece	KXC-CR123

The electronic door fitting is available in a wide version, either in a blind version or with a profile cylinder punch. It is particularly suitable for present doors in case existing holes in the door are to be covered.



Door Fitting slim

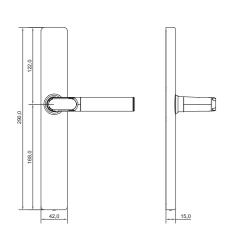
Electronic side

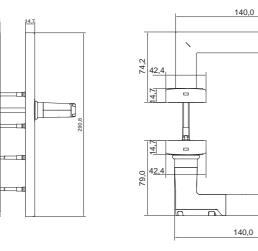
Mechanical side



The electronic door fitting is available in a slim version, either in blind version or with profile cylinder punch. The electronic fitting in the slim version is particulary suitable for tubular frame doors.

Measurements Door Fitting slim





Door Fitting Short Plate

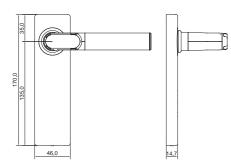


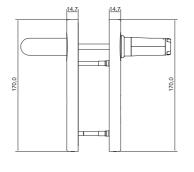
Mechanical side

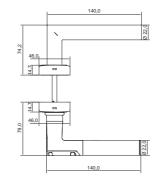


The electronic door fitting is available in a short plate version, either in blind version or with profile cylinder punch. The electronic door fitting with short plate is particularly suitable for the use in fire and smoke protection doors and can be mounted in emergency exit locks together with the accordingly certified lock in compliance with DIN EN 179.

Measurements Door Fitting Short Plate









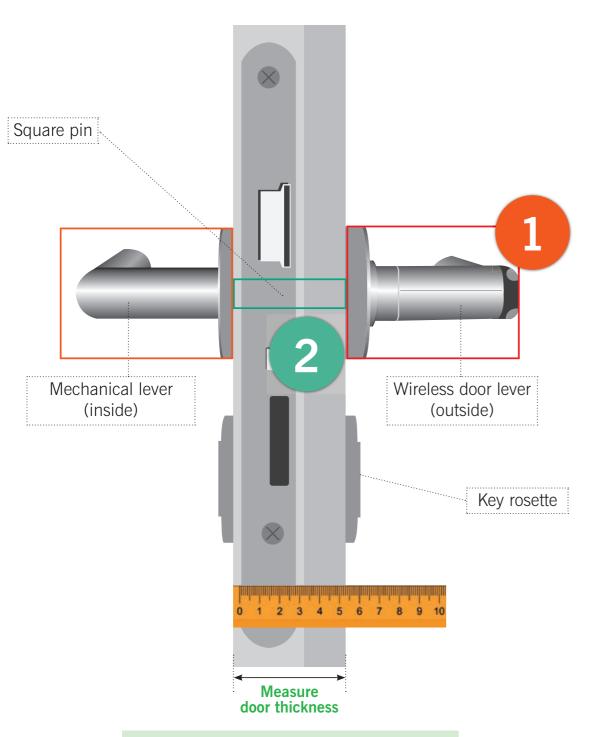
Wireless Door Fitting see page 64



Ordering assistance for Kentix DoorLock-LE

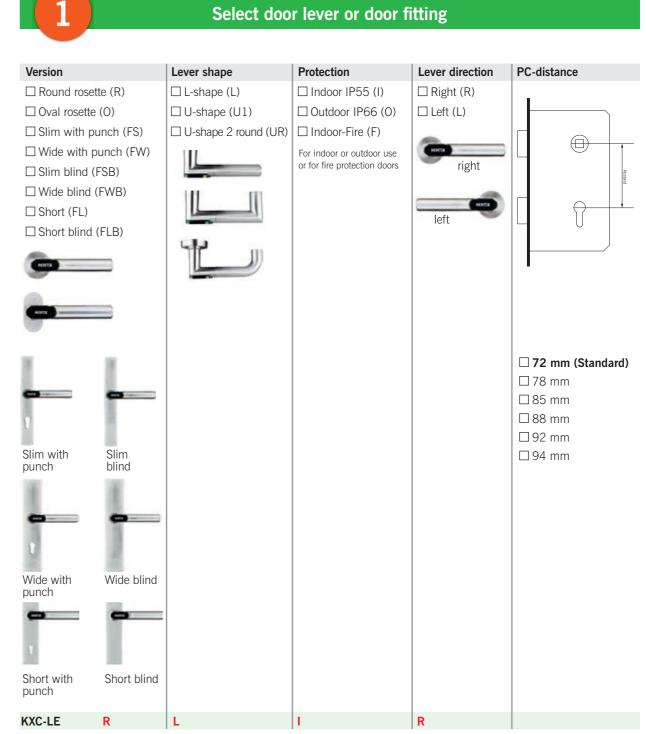
(Wireless Door Lever)

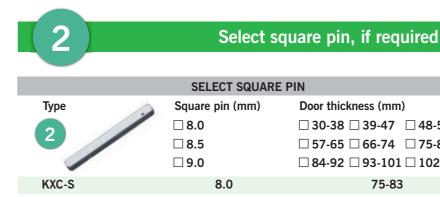
Easy selection of the required Kentix DoorLock Door Lever in two steps



INFO

The item is always delivered as a set consisting of online door lever, mechanical interior lever and the required screws. The key rosettes are not included. You can either use the existing rosettes or order the matching key rosettes separately. A square pin for standard doors with a door thickness of up to 47mm and 8mm square pins is already included in each Wireless Door Lever set. If another type of square pin is required, please order it extra.





□ 30-38 □ 39-47 □ 48-56 □ 57-65 □ 66-74 □ 75-83 □ 84-92 □ 93-101 □ 102-110

75-83

HINT

For doors with a thickness of 39-47mm, a 8.0 square pin is delivered by default. For all other doors please select your according square pin here.

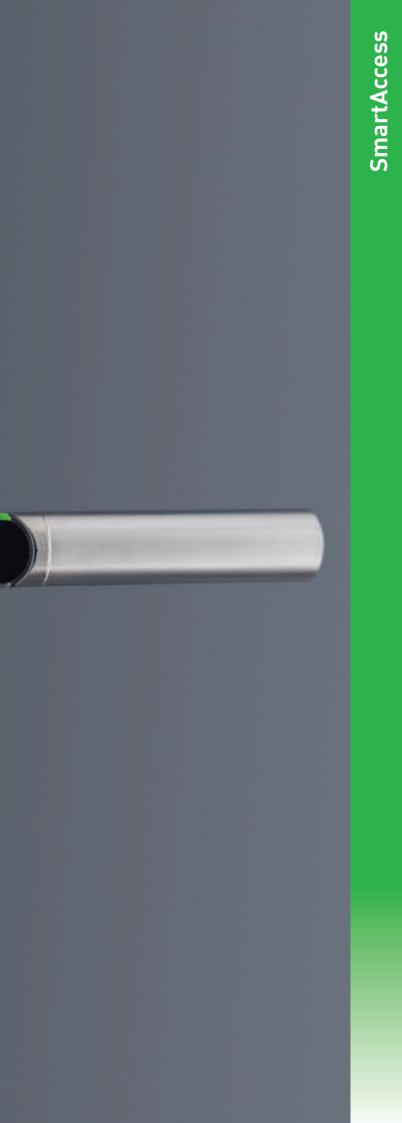
Select wireless door lever and door fitting

Version	Lever shape		Protection	Lever direction	PC-distance
🗹 Round rosette (R)	L-shape (L)		🗹 Indoor IP55 (I)	🗹 Right (R)	72 mm (Standar
Oval rosette (O)	U-shape (U1)		Outdoor IP66 (0)	Left (L)	□ 78 mm
□ Slim with punch (FS)	U-shape 2 rour	nd (UR)	Indoor-Fire (F)		□ 85 mm
Slim blind (FSB)			For indoor or		□ 88 mm
□ Wide with punch (FW)			outdoor use or for fire protection doors		□ 92 mm
□ Wide blind (FWB)			·		□ 94 mm
□ Short with punch (FL)					
□ Short blind (FLB)					
R	L			R	
Example			\sim		Quantity
Door "Office"	KXC-LE	R	L	I R	2
Door "Office	KAC-LE	ĸ	L	I K	2
	☑ 8.0 □ 8.5	□ 9.0	Door thickness: 75	mm PC-distance: 72	<u>2 mm</u> 2
	KXC-LE				
	□8.0 □8.5	□ 9.0	Door thickness:	PC-distance:	
	KXC-LE				
	NAC-LL				
		□ 9.0	Door thickness:	PC-distance:	
	KXC-LE				
	□ 8.0 □ 8.5	□ 9.0	Door thickness:	PC-distance:	
	KXC-LE				
	_	_			
		□ 9.0	Door thickness:	PC-distance:	
	KXC-LE				
	□8.0 □8.5	□ 9.0	Door thickness:	PC-distance:	
	KXC-LE				
	NU-LE				
	8.0 8.5	□ 9.0	Door thickness:	PC-distance:	

KENTIX

Wireless Door Lever see page 62

-



Configuration examples

Electronic Door Lever versions







Electronic door lever for

glass-door lock

(upon request)

Electronic door lever in version with round rosette

Electronic door lever in version with oval rosette

Electronic Door Fitting versions



Electronic door fitting slim in blind version





Electronic door fitting with short panel in blind version

Lever versions



Key rosette door lever

Round rosette Round



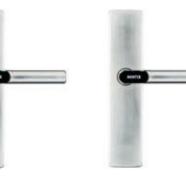


U-shape square



U-shape round

Key punch door fitting



Profile cylinder

Blind

Overview of possible combinations





Oval rosette

Oval rosette

profile cylinder rosette blind profile cylinder blind

	Electronics outside - upon request -			
		- upon n	equest -	
-	<u> </u>		-	-
	+			
		+		
		T		
			+	
			•	
				+
+				



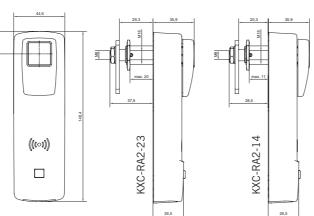
Wireless Cabinet Lock DoorLock-RA

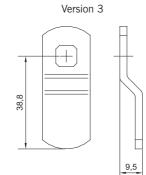
The radio cabinet lock offers a simple locking solution for converting data, technology and distribution cabinets. Battery operation reduces installation to a minimum. A lithium AA battery is used for the battery and enables a running time of up to eight years or 100,000 operations. The battery is mechanically secured against removal (special tool). The lock is supplied with different locking levers and can therefore be adapted to almost any distribution cabinet.



Products

Wireless Cabinet lock with 23mm bolt KXC-RA2-23 Wireless Cabinet lock with 14mm bolt KXC-RA2-14 Accessories End of the second secon		Item number
Type Delivery content Item number Spare battery 1 piece KER14505 Battery Changing Tool 1 piece KXC-BAT3 Version 1 Version 1 Version 1	Wireless Cabinet lock with 23mm bolt	
Type Delivery content Item number Spare battery 1 piece KER14505 Battery Changing Tool 1 piece KXC-BAT3	vith 14mm bolt	KXC-RA2-14
Spare battery 1 piece KER14505 Battery Changing Tool 1 piece KXC-BAT3		
Battery Changing Tool 1 piece KXC-BAT3	Delivery content	Item number
Version 1 Version	1 piece	KER14505
	1 piece	KXC-BAT3
	on 1	Versior
		32.8
		Vith 14mm bolt Delivery content 1 piece 1 piece





Technical Details

Function	Electronic cabinet lock with RFID and wireless networking
Room/site size	One rack or cabinet lock respectively
Radio frequency	868 MHz, encryption AES 128 Bit
RFID reader	MIFARE® DESFire® 13,56MHz
Temperature range	-10°C up to +55°C
Configuration	Via Kentix AccessManager (KXP-16-B/W)
Battery	1x AA lithium (3.6V)
Battery life (transactions/years)	Up to 100.000 transactions or 8 years
Approval	CE, DIN15684
Delivery content	1x Wireless Cabinet Lock, 1x locking lever Type 3, 1x AA lithium battery,
	mounting material

5,2

-| |-





Wireless Wall Reader

The wireless wall reader is suitable for electric door openers, electronic locks, electric door and gate drives or elevators for instance. The entire electronic system is located on a compact unit that can be mounted in a simple flush-mounted box. The wall mounted reader is available in flush-mounted and surface-mounted versions for interiors or exteriors. With different covers and housings (to be ordered extra), manifold installation possibilities can be realized. Unlocking authorizations can be assigned from one central position and can be reached even in exposed, distributed places.

. 2

Item number

Aluminum KXC-WA2-GIRA-TX44-ALU

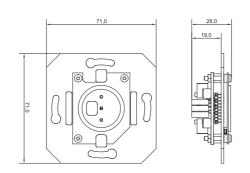
Anthracite KXC-WA2-GIRA-TX44-ANTH

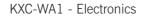
KXC-WA1-GIRA-S-GREY

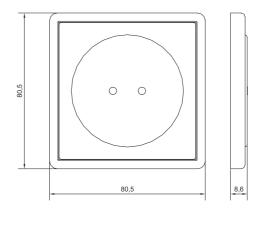
KXC-WA1-GIRA-S-WHITE

KXC-WA1-GIRA-S-BLACK

KXC-WA2-GIRA-TX44-WHITE









KXC-WA1 with GIRA S-Color housing

Technical Details

Products

Wall Reader

Type

Function	Wireless Wall Reader for flush- or surface-mounting
Room/site size	One door or gate respectively
Radio frequency	868 MHz, encryption AES 128 Bit
RFID reader	MIFARE® DESFire® 13,56MHz
Temperature range	-20°C up to +65°C
Configuration	Via Kentix AccessManager (KXP-16-B/W)
Radio range	Approx. 25m
Relay	30VAC/DC, 1.5 A (PhotoMOS Relay)
Housing	KXC-WA1 for flush-mounting, select cover
	KXC-WA1-Outdoor for surface wall mounting,
	protection class IP66, size: 90 x 90 x 40 mm
Audits	CE
Delivery content	Wireless Wall Reader, Quick Start Guide

Item number

KXC-WA1

Wall Reader Outdoor IP66 KXC-WA1-OUTDOOR

RIAL L

Accessories

Color

Grey

White

Black

White

Housing

GIRA S-Color

GIRA S-Color

GIRA S-Color

GIRA TX-44

GIRA TX-44

GIRA TX-44

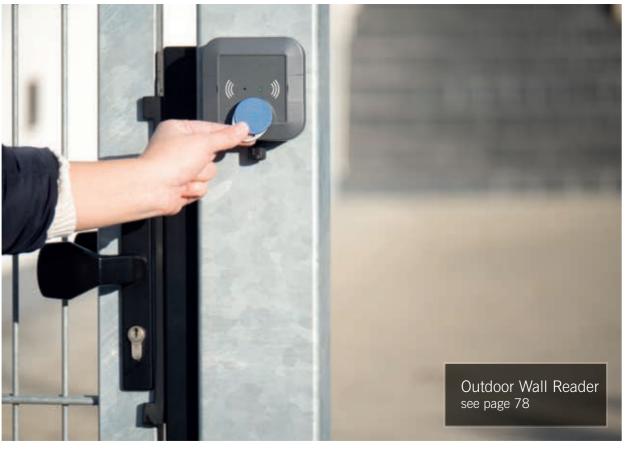
INFO

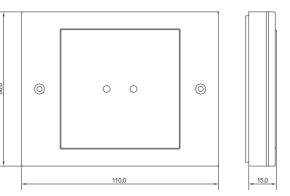
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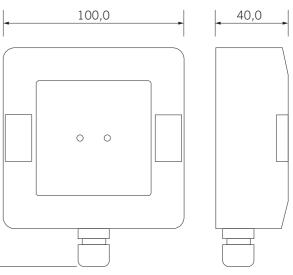
Wall reader in waterproof housing for outdoor use. Ideal for use in rough and moist environments in protection class IP66. Ideal for barrier and gate systems. The door is either controlled via the relay integrated in the Wireless Wall Reader or the external relay connected to the AccessManager (KIO3), depending on the requirements.







KXC-WA1 with GIRA TX-44 housing



KXC-WA1-OUTDOOR - Outdoor Wall Reader



SmartAccess

IP-Wall Reader DoorLock-WA-IP

The IP Wall Reader enables access control via RFID medium or alternatively via pin code. A two-factor-authentication is also possible. The SmartRelay (PoE) forms the central unit with network connection. The administration is done centrally via the integrated web server. The SmartRelay communicates per Bus connection with the IP Wall Reader. The reader can be mounted easily in the outlet socket or in a surface-mounted housing (optional) on the inside of the door. With the integrated PoE splitter, the door lock or opener is supplied with 24VDC directly via the reader module; additional cables are not required for power supply.



Products

Туре	Item number
StarterSet Network Reader with SmartRelay	KXC-WA3-IP1
Network Extension Reader for StarterSet	KXC-WA3-IP2
StarterSet Network Reader with SmartRelay (Outdoor IP66)	KXC-WA3-IP1-OUTDOOR
Network Extension Reader for StarterSet (Outdoor IP66)	KXC-WA3-IP2-OUTDOOR

Housing

Housing	Protection class	Color	Item number
Surface-mounted housing	IP44	Painted in RAL 9006	KXC-WA3-SMC

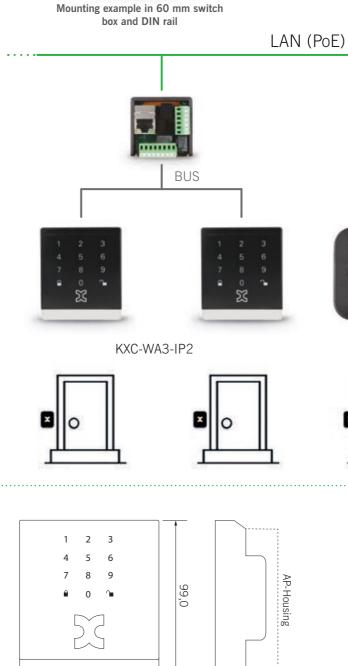
Technical Details

Function	IP wall reader for flush or surface mounting, SmartRelay
Room/site size	One door
RFID reader (multi-reader)	MIFARE® DESFire® 13,56MHz, MIFARE® Classic, LEGIC prime, LEGIC advant,
	ISO14443A (CSN / UID), ISO15693 (CSN / UID), Sony FeliCa (CSN / UID),
	Inside Secure (CSN / UID)
Signaling, LED	Acoustic signal transmitter, RGB light field
Connection Wall Reader	Via Relay Module 4-wire, length up to 500m
Connection electronic door opener/lock	24VDC/500mA (briefly 1A) via integrated PoE splitter or externally,
	Relay: 125VAC/60VDC, 1A, change-over contact
Temperature range	Wall reader -25°C up to +60°C
	SmartRelay 0 - 60°C, non-condensing
Protection class	Wall reader IP54, SmartRelay IP20
Configuration	Integrated web server (HTTP/HTTPS)
Extensibility	Extendable to two readers
Size Wall Reader	88 x 99 x 27 mm (flush mounting)
	88 x 99 x 40 mm (surface mounting)
Size Relay Module	47 x 48 x 33 mm, mounting in outlet socket or on DIN rail
Approval	CE
Delivery content KXC-WA3-IP1	Wall Reader with PIN, SmartRelay, 1x RFID keyfob, 3m SlimLine cable
Delivery content KXC-WA3-IP2	Wall Reader with PIN (requires KXC-WA3-IP1 as basis)

StarterSet DoorLock-WA-IP



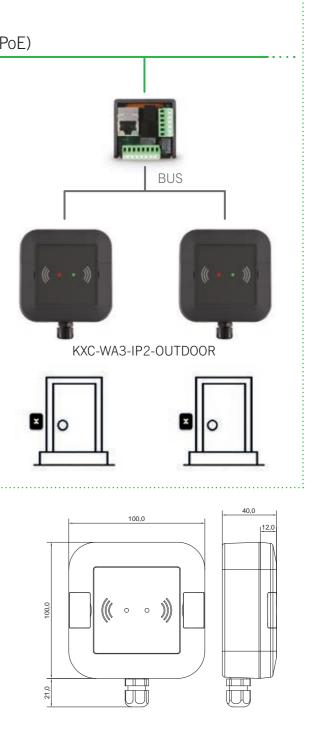
mode.



88,0

27,0 40,0

AccessManager SmartRelay can be networked together indefinitely. If several doors or additional rooms are to be integrated, the SmartRelay can be connected to a system with central administration by means of a MainDevice-Satellite





0

6

9

66

23

IP Frame Reader DoorLock-WA-IP

The frame reader is suitable for e.g. electric door openers, electric locks, electric door and gate drives or elevators. The entire electronics are located on a compact unit that can be easily mounted. Due to its compact design, the reader is particularly suitable for use with narrow metal profiles. Locking authorizations can be assigned from a central location and can be accessed at exposed, remote locations.

Products

Туре	Item number
StarterSet Network Reader with SmartRelay	KXC-WA6-IP1
Network Extension Reader	KXC-WA6-IP2



IP Wall Reader for installation in switch boxes

IP wall reader in standard format for integration of switch ranges with 55x55 mm cut-out. The IP wall reader enables access control via RFID medium or alternatively via PIN entry. A two-factor authentication is also possible. The SmartRelay (PoE) forms the central unit with network connection. The administration takes place centrally through the integrated web server. The network relay module communicates with the IP wall reader via a bus connection. This can be easily mounted in the switch box or with a surface-mounted housing (optional) in the interior of the door.

Products

Туре

StarterSet Network Reader with SmartRelay Network Extension Reader





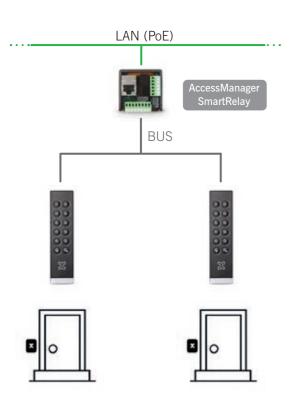


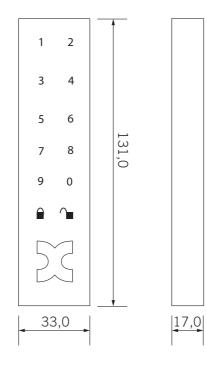
Mounting on barrier systems

Mounting on door frames

Installation in safety area cages

In the field of separation, metal construction







IP Fingerprint Reader for two-factor authentication

Biometric reader for double verification with MifareDesfire card and biometric feature. As with all Kentix IP readers, management is done via the SmartRelay software. The biometric features of the finger are written to the card via special enrollment cards. The enrollment process takes place directly at the reader. Authorized access is then only possible from the person whose card matches the finger. The reader can be combined with all other Kenitx readers.

Products

Туре

IP Fingerprint Reader with Sm IP Fingerprint Extension Read Enrollment Cards



Item number KXC-WA2-IP1 KXC-WA2-IP2

Item number
KXC-WA5-IP1
KXC-WA5-IP2
KXC-WA5-PC

IP rack handle for server rack security

IT cabinet handle in robust metal-plastic design as a folding lever handle. This means that the handle does not require a swivel range and enables ergonomic handling. The connection is made completely via patch cable. For each Kentix AccessManager up to 16 handles can be connected. Any number of AccessManagers can be networked. A reed contact can be connected directly to each IP rack handle, which reliably monitors the closing and locking status of the rack door. The power supply is PoE and is therefore easily integrated into the UPS power supply.



Products

Туре	Item number
IP rack handle as StarterSet, right-turning	KXC-RA4-IP1-R
IP rack handle as StarterSet, left-turning	KXC-RA4-IP1-L
IP rack handle as extension, right-turning	KXC-RA4-IP2-R
IP rack handle as extension, left-turning	KXC-RA4-IP2-L

Accessories

Туре	Item number
Distributor box BUS for two doors with door contact	KXC-RA4-DB-BUS
Distributor box PDU for two doors with door contact	KXC-RA4-DB-PDU
Magnetic door contact, 2m connection cable, RJ45 plug	KDC1-W
RITTAL mechanism (comfort handle TS8), door with design bevel	KXC-RA4-RITTAL-TS8-DSG
RITTAL mechanics adapter (comfort handle TS8), flat door	KXC-RA4-RITTAL-TS8
VERTIV mechanics adapter, front door	KXC-RA4-VERTIV

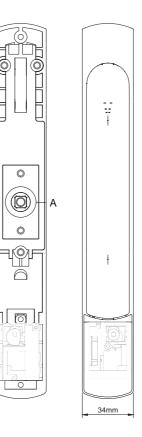
More than a rack handle

The DoorLock-RA4 is an advanced, mechatronic IoT system component that can do more than just open and close server and data cabinets. The DoorLock-RA4 is a sophisticated, infinitely scalable access control system with intelligent software based on the latest generation of KentixOS and the Kentix App, which also enables access via smartphone and smartwatch.

Based on the REST API, data center applications can be automated or seamlessly integrated. Collocation customers or service technicians only need a smartphone to open IT racks or doors. The coloured LED on the rack handle can also be used, for example, to display the status of system conditions in the rack or simply as a guidance signal for customers and technicians.

Technical details

Function	Lift handle for data and server rac
Room/system size	One Door
RFID reader	13,56MHz MIFARE® DESFire® E
PIN keyboard	Touch PIN keyboard with 4 keys
Handle state	Sensor for detecting the lever posit
Signalliesierung (LED)	Acoustic sounder, LED light field (I
Connection	RJ45 back side for standard patch
Door contact	RJ45 connection via distribution be
Power supply	Via AccessManager (PoE) or Smar
Size	250 x 34 x 31mm (LxBxH)
Material	Plastic, Metal-casting
Temperature range	-10°C to 55°C for indoor use
Protection Class	IP30
Approvals	CE
Delivery content	Rack handle, SlimLine cable 3m,



We offer other adapters on request, or also project-specific - please contact us.

racks

e® EV1/2, MIFARE® Classic

position (open/closed)

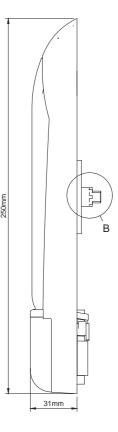
eld (RED/GREEN)

batch-cable CAT5

ionbox

SmartPDU (Systemport)

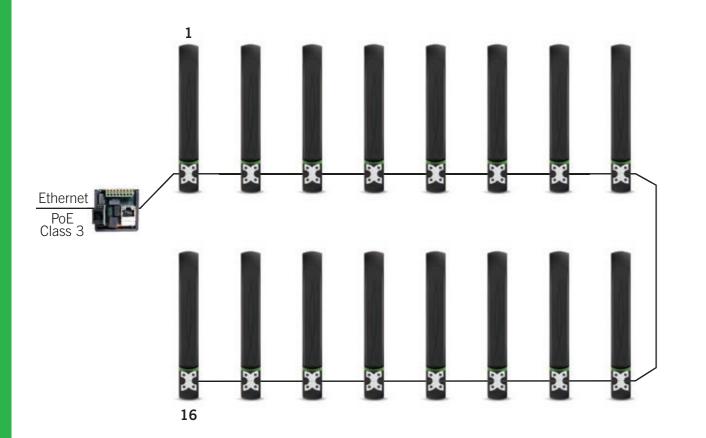
3m, fixing material



Rack closure rethought!

Rack locking with system

Only 1 Ethernet PoE port supplies 16 rack handles! This means that only a few Ethernet ports and addresses are occupied, even in large data centers.

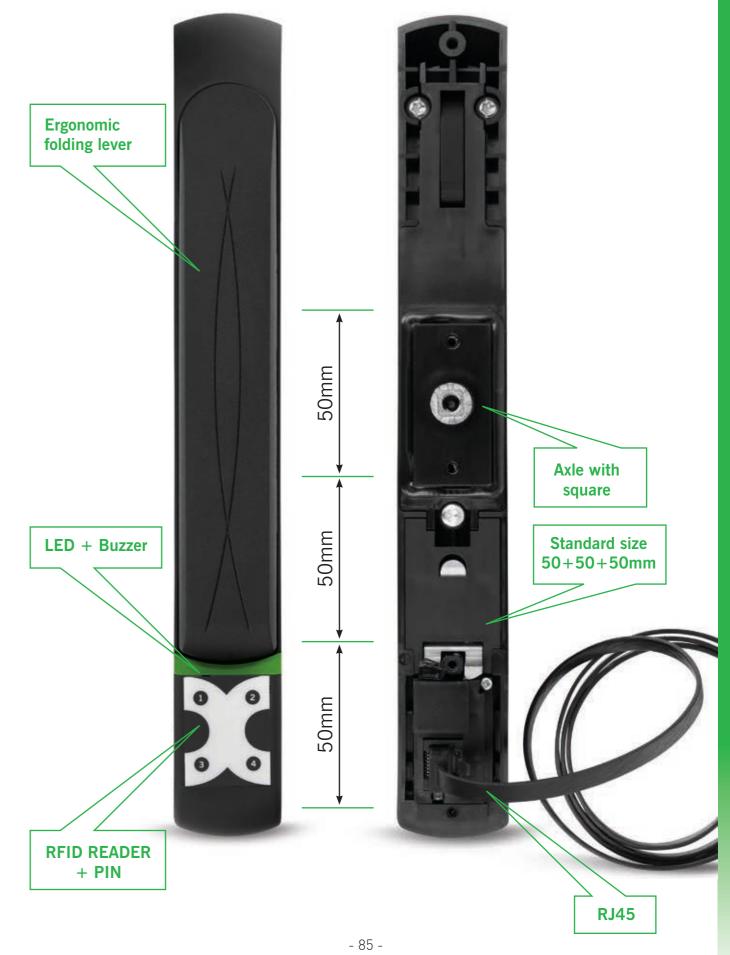


Direct connection of the rack handle to the **Kentix SmartPDU**

The DoorLock-RA4 is an important system component with many advantages. In addition to stand-alone use, the lever can also be connected directly to a Kentix SmartPDU. On the one hand, this eliminates the need for cabling between the cabinets, on the other hand, the front and rear door handles of the cabinet are supplied redundantly via the PDUs. The SmartPDU takes over the management of the handle and the monitoring of the door contacts. Only a central AccessManager is then required as further hardware. Integration into an overall locking system

system from Kentix is thus even solved.





Networking Stand-Alone



1

5



- Rack 2-8

1) AccessManager is included in StarterSet

- Distributor box with connections for equipping two rack doors
- 3) Rack handle for front door
- 4) Door contact for front door
- 5) Rack handle for rear door
- 6) Door contact for rear door

Example of material compilation for 1 rack:

1 piece ART:KXC-RA4-IP1-R StarterSet (right rotation)1 piece ART:KXC-RA4-IP2-L Extension (left rotation)1 piece ART:KXC-RA4-DB-BUS Distribution box for bus2 piece ART:KDC1-W Door contact

Networking with SmartPDU



- 1) Kentix SmartPDU (An additional AccessManager in the network for convenient management of accesses is recommended)
- 2) Distribution box with connections for equipping two rack doors per PDU
- 3) Rack handle for front door
- 4) Door contact for front door
- 5) Rack handle for rear door
- 6) Door contact for rear door

Example of material compilation for 1 rack:

1 Stück ART:KXC-RA4-IP2-R Extension (right rotation)1 Stück ART:KXC-RA4-IP2-L Extension (left rotation)1 Stück ART:KXC-RA4-DB-BUS Distribution box for bus2 Stück ART:KDC1-W Door contact







System components Ethernet





Device	DoorLock-WA3-IP	DoorLock-WA3-IP-OUTDOOR
Туре	KXC-WA3-IP1/2	KXC-WA3-IP1/2-OUTDOOR
Function	IP Wall Reader with RFID and LAN networking	IP Outdoor Reader with RFID and LAN networking
Max. Number of doors per AccessManager	2	2
Max. Number of DoorLocks per AccessManager	4	4
Configuration	Web-Server (HTTPS)	Web-Server (HTTPS)
Smartphone app	V	V
PIN field, two-factor authentication	\checkmark	×
Two-factor authentication with biometrics	×	×
Enrollment at the fingerprint reader	×	×
Online storage in AccessManager	5.000 user	5.000 user
Protection class reader	IP44	IP67
Protection class SmartRelay	IP20	IP20
SmartRelay control relay (60VDC/1A)	2	2
RFID reader expandable on both sides	 	V
Cable length reader to SmartRelay	800 m	800 m
Mounting SmartRelay DIN Rail	V	~
Mounting SmartRelay switch box	V	<i>v</i>
RFID Reader MIFARE®	Classic [®] , DESFire [®]	Classic [®] , DESFire [®]
Remote opening	V	v
Arming/disarming Kentix alarm system	V	v
Maximum number of networkable AccessManager	unlimited	unlimited
Digital inputs SmartRelay	2	2
Door profiles	unlimited	unlimited
Time profiles (weekday, time of day)	unlimited	unlimited
Access log Memory depth	200.000	200.000
Ethernet	V	V
Power over Ethernet (PoE)	V	 ✓
IEEE 802.1X authentication	V	V
Integration into AlarmManager	 V 	~
Video recording IP camera (HTTPS)	V	V
Sabotage monitored	 ✓ 	~
SNMP (V2/V3)	V	V
LDAP - Active Directory	· · · · · · · · · · · · · · · · · · ·	v
Memory expansion (SD card)	V	v
Integrated PoE splitter (24VDC/0.5A)	v	· · · · · · · · · · · · · · · · · · ·
Approvals	CE	CE
Power supply	PoE Class 3	PoE Class 3
Temperature range	-25 °C to 60 °C	-30 °C to 70 °C
Reader size (L x W x H in mm)	88 x 99 x 27	100 x 100 x 40
Size SmartRelay (L x W x H in mm)	47 x 48 x 33	47 x 48 x 33
	- 88 -	T A TO A 33





DoorLock-WA6-IP	DoorLock-WA2-IP
KXC-WA6-IP1/2	KXC-WA2-IP1/2
Compact IP Wall Reader with RFID and LAN networking	Flush-mounted IP Wall Reader with RFID and LAN networking
2	2
4	4
Web-Server (HTTPS)	Web-Server (HTTPS)
 V 	V
 ✓ 	V
×	×
×	×
5.000 user	5.000 user
IP44	IP20
IP20	IP20
2	2
 ✓ 	×
800 m	800 m
 ✓ 	v
 ✓ 	v
Classic [®] , DESFire [®]	Classic [®] , DESFire [®]
\checkmark	v
 ✓ 	v
unlimited	unlimited
2	2
unlimited	unlimited
unlimited	unlimited
200.000	200.000
V	v
V	v
 ✓ 	×
 	×
 ✓ 	×
 ✓ 	 ✓
 ✓ 	×
 ✓ 	 ✓
 ✓ 	×
 ✓ 	×
CE	CE
PoE Class 3	PoE Class 3
-25 °C to 60 °C	-25 °C to 60 °C
131 x 33 x 17	55 x 55 cut-out
47 x 48 x 33	47 x 48 x 33
	- 89

FINGERPRINT	IT-RACK
DoorLock-WA5-IP	DoorLock-RA4-IP
KXC-WA5-IP1/2	KXC-RA4-IP1/2
Fingerprint Reader with RFID and LAN networking	IP Rack Handle with RFID and LAN networking
2	2
4	4
Web-Server (HTTPS)	Web-Server (HTTPS)
v	v
×	×
V	×
V	×
5.000 user	5.000 user
IP44	IP44
IP20	IP20
2	2
v	×
800 m	800 m
v	×
v	×
Classic [®] , DESFire [®]	Classic [®] , DESFire [®]
v	 ✓
v	v
unlimited	unlimited
2	×
unlimited	unlimited
unlimited	unlimited
200.000	200.000
v	v
v	 ✓
v	v
v	 ✓
V	 ✓
V	
V	 ✓
 ✓ 	
V	 Image: A set of the set of the
 ✓ 	
CE	CE
PoE Class 3	PoE Class 3
-10 °C to 50 °C	-10 °C to 50 °C
96 x 123 x 55	250 x 34 x 30
47 x 48 x 33	47 x 48 x 33

System components radio









DoorLock-LE	DoorLock-WA	DoorLock-RA
KXC-LE-XXXX	KXC-WA1/ KXC-WA1-OUTDOOR	KXC-RA
Door Lever with RFID and radio networking	Wall Reader with RFID and radio networking	Rack Cabinet Lock with RFID and radio networking
-	-	-
AccessManager, Programming card	AccessManager, Programming card	AccessManager, Programming card
×	×	×
 	v	v
×	×	×
1.000 user	1.000 user	1.000 user
-	-	-
 ✓ 	×	v
V	 ✓ 	v
V	×	×
V	×	×
up to 6 years	-	up to 8 years
V	×	~
up to 110 mm	-	-
Classic [®] , DESFire [®]	Classic [®] , DESFire [®]	Classic [®] , DESFire [®]
v	V	~
V	v	~
-	-	-
approx. 25 m	approx. 25 m	approx. 25 m
-	-	-
-	-	-
-	-	-
×	×	×
×	×	×
×	×	×
×	×	×
×	×	×
V	×	~
×	×	×
×	×	×
×	×	×
868MHz	868MHz	868MHz
CE	CE	CE
CR123A	VersorgSpann. 8-40V	AA Lithium
5 °C to 55 °C	-20 °C to 65 °C	-20 °C to 65 °C
30-110	71 x 71 x 26	148.4 x 44.6 x 35.9

DoorLock-LE	DoorLock-WA	DoorLock-RA
KXC-LE-XXXX	KXC-WA1/ KXC-WA1-OUTDOOR	KXC-RA
Door Lever with RFID and radio networking	Wall Reader with RFID and radio networking	Rack Cabinet Lock with RFID and radio networking
-	-	-
AccessManager, Programming card	AccessManager, Programming card	AccessManager, Programming card
×	×	×
v	V	v
×	×	×
1.000 user	1.000 user	1.000 user
-	-	-
V	V	V
V	V	V
<i>v</i>	×	×
~	×	×
up to 6 years	-	up to 8 years
~	×	V
up to 110 mm	-	-
Classic [®] , DESFire [®]	Classic [®] , DESFire [®]	Classic [®] , DESFire [®]
~	V	V
~		V
-	-	-
approx. 25 m	approx. 25 m	approx. 25 m
-	-	-
-	-	-
-	-	-
×	×	×
×	×	×
×	×	×
×	×	×
×	×	×
~	 	V
×	×	×
×	×	×
×	×	×
868MHz	868MHz	868MHz
CE	CE	CE
CR123A	VersorgSpann. 8-40V	AA Lithium
	-20 °C to 65 °C	-20 °C to 65 °C
5 °C to 55 °C	-20 0 0 0 0 0	-20 0 0000 0

Gerät	AccessManager	DoorLock-DC BASIC	DoorLock-DC PRO
Туре	KXP-16-B/W	KXC-KN1/2	KXC-KN4
Function	Access system for web- based management and networking of the wireless DoorLocks	Door Knob with RFID and radio networking	Compact Door Knob with RFID and radio networking Resistance class 2
Max. Number of DoorLocks per AccessManager	16	-	-
Configuration	Web-Server (HTTPS)	AccessManager, Programming card	AccessManager, Programming card
Smartphone app	v	×	×
Radio networkable	×	V	v
Standard mortise lock (DIN18252 and DIN 1303	3) 🗙	v	×
Offline memory in the device	-	1.000 user	1.000 user
Online storage in AccessManager	5.000 user	-	-
Suitable for external doors (IP66)	×	v	×
Suitable for fire protection doors	×	 	v
Anti-panic version for escape doors	×	v	×
RFID reader expandable on both sides	×	v	
Battery life (years)	-	up to 4 years	up to 6 years
Battery level message	 ✓ 	 ✓ 	×
Door thickness	-	up to 140 mm	up to 110 mm
RFID Reader MIFARE®	-	Classic [®] , DESFire [®]	Classic [®] , DESFire [®]
Remote opening	V	V	
Arming/disarming Kentix alarm system	V	v	
Maximum number of networkable AccessManage	er unlimited	-	-
Radio range	approx. 25 m	approx. 25 m	approx. 25 m
Door profiles	unlimited	-	-
Time profiles (weekday, time of day)	unlimited	-	-
Access log Memory depth	200.000	-	-
Ethernet	V	×	×
Power over Ethernet (PoE)	V	×	×
IEEE 802.1X authentication	V	×	×
Can be integrated into AlarmManager	V	×	×
Video recording IP camera (HTTP/S)	V	×	×
Sabotage monitored	v	v	
SNMP (V2/V3)	v	×	×
LDAP - Active Directory	v	×	×
Memory expansion (SD card)	v	×	×
Radio frequency	868MHz	868MHz	868MHz
Approvals	CE	CE, DIN15684	CE
Batteries/power supply	PoE Class 2	2 x CR2 (3V)	1 x CR123A
Temperature range	0 °C to 50 °C	-25 °C to 65 °C	-25 °C to 65 °C
Size (L x W x H in mm)	90 x 90 x 45	30-140	30-110





SmartAccess

StarterSets-DoorLock-KXC

With the StarterSets-DoorLock you get all the com- The combination of AccessManager, wireless door ponents you need to lay the foundation for an access system. Each StarterSet allows you to manage access terSet-DoorLock-BASIC contains everything you need authorisations for up to 16 doors. Additional doors can easily be added at any time. The AccessManager and In the StarterSet-PRO, the radio door knob is replaced doors can be networked together without limits, allow- by a compact knob. Due to its smaller diameter (31.4 ing small and large access systems to be created in no time at all. There are no limits to future expansion

knob (IP55) and master card set included in the Starto make a door online ready.

mm), this knob is particularly suitable for metal frame doors, as it leaves sufficient clearance for opening the door even with small backsets. Due to the compact and robust design of the knob, it is protected against drilling and has resistance class 2 (RC2).

StarterSet-DoorLock BASIC



Delivery content StarterSet DoorLock-BASIC:

- · 1 AccessManager
- 1 Wireless Door Knob BASIC (IP55)
- · 1 Master card set
- · 1 Slim-line patch cable 3 m

IMPORTANT: Always order a matching profile cylinder KXC-80/140-AABB or KXC-50-AA for the Wireless Door Knob



Products

Accessories

Туре	Item number
StarterSet DoorLock BASIC	KXC-CS1

Туре	Delivery content	Item number
PoE Injector	1 piece	KPOE100EU
Low Power Adapter	1 piece	KXC-BAT2
Spare batteries for Wireless Door Knob	2 pieces	KXC-CR2-2

StarterSet-DoorLock PRO





Products	
Туре	Item number
StarterSet DoorLock PRO	KXC-KN4-CS1

Accessories

Туре PoE-Injektor

Spare batteries for W

Identification Media - Transponder

Kentix transponders are based on MIFARE®DESFire® technology (13.56MHz) type EV2 with 4kB memory. By default, the tokens are written with a special Kentix security application, but can also be written with an own security application according to standard.

Products

Amount	Item num
1 piece	KKT-M
25 pieces	KKT-M25
1 piece	KKT-MC
25 pieces	KKT-MC2
1 piece	KKT-MI
25 pieces	KKT-MI2
	 piece pieces piece pieces pieces pieces



Ø 35 mm Item number: KKT-M

B x H: 85 x 55 mm Item number: KKT-MC

Delivery content StarterSet DoorLock-PRO:

- · 1 AccessManager
- 1 Wireless Door Knob PRO (IP55)
- · 1 Master card set
- · 1 Slim-line patch cable 3 m





	Delivery content	Item number
	1 piece	KPOE100EU
Vireless Door Knob	2 pieces	KXC-CR2-2



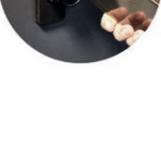




25

5







Ø 27 mm Item number: KKT-MI

Application example: Access for office, law firms or medicinal practices

Protection of entrances and rooms in the same or in other buildings against unauthorized access with an online-capable solution

The wireless Door Knob with profile cylinder, the wire- ger can be connected to one system in which one of less Door Lever and wireless Wall Reader are available them takes on the central administration. This makes as locking components. These are connected wireless- the extension to more rooms or buildings very easy. ly to the Kentix AccessManager. On a web surface, the AccessManager provides the central administration for The IP Wall Readers and Network Relay Modules are all locking components in the system and contains a fully compatible to the DoorLock series. Therefore, excentral log book. If required, each transaction can be tra rooms can also be equipped with wireless DoorLock connected to a video recording. Several AccessMana- components and can be integrated into the system.

Parts list/Order assistance

Туре	Item number	Quantity
AccessManager	KXP-16	1
Wireless Door Knob for interior	KXC-KN1/2	1
or exterior doors (IP65/66)		
Profile cylinder	KXC-80-AABB	1
Wireless Door Lever	KXC-LE	1
Wireless Wall Reader	KXC-WA1	1

Extensions

Туре	Item number	Quantity
Camera	M3105-LVE	1
IP Wall Reader incl.	KXP-WA3-IP1	1
SmartRelay		
Extension reader for	KXP-WA3-IP2	1
SmartRelay		

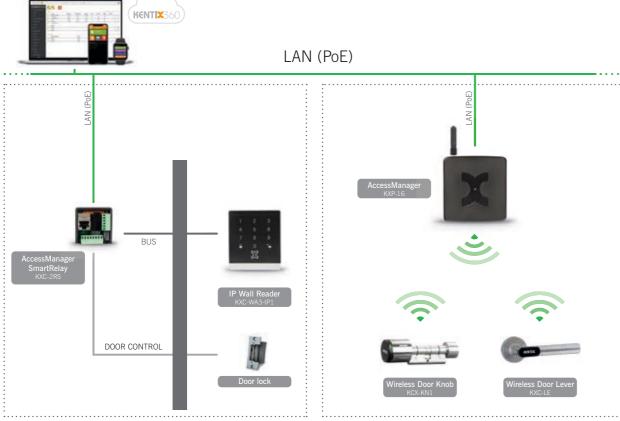
Application example: Access solution for IT racks

Protection of one or several IT racks (server cabinets) against unauthorized access, expandable to other rooms or areas and combinable with video recording if required

To implement an access control system for IT racks, central log book of all transactions. If required, each the wireless Door Knob with profile half cylinder and transaction can be combined with a video recording. the wireless Cabinet Lock are available as locking com- Several AccessManager can be connected to one ponents. These components are connected to the Ken-system so that changes only need to be made from tix AccessManager via radio. On a web surface, the one central position. This way, the site can be extended AccessManager provides the central administration for any time with more server cabinets or doors to adjoinall locking components in the system and contains a ing rooms as well.

Parts list/Order assistance

Туре	Item number	Quantity	Туре	Item number	Quantity
AccessManager	KXP-16	1	Camera	M3105-LVE	1
Wireless Door Knob for interiors (IP55)	KXC-KN1	1	Wireless Door Knob for interior or exterior doors (IP55/66)	KXC-KN1/2	1
Profile half cylinder	KXC-50-AA	1	Profile cylinder	KXC-80-AABB	1
IP Rack handle	KXC-RA4-IP1	1	Wireless Wall Reader	KXC-WA1	1



Entrance area

Interior/office



Server/data center room

Extensions



IP Power Monitoring ingeniously easy – with the Kentix SmartPDUs

A stable power supply is the basis of your IT and The comprehensive, event-based REST API goes business infrastructure. Kentix SmartPDUs enable one step further with so-called web hooks. This seamless monitoring and are easy to integrate into means that all PDU functions are available in enyour existing system environment. The advantage crypted form via SSL/TLS and offer and offer comis, on the one hand, the flexible choice between pletely new possibilities for effective data center different connection and mounting variants and, on automation. This makes it easy to distribute confithe other hand, the simple IP network integration gurations or templates, and service technicians or without external software. Like all Kentix products, collocation customers can be guided visually and the SmartPDU series is based on the innovative acoustically to their racks. KentixOS supports Ac-KentixOS operating system. tive Directory or LDAP, making user management and control of electronic rack handles via a central The software integrates all open interfaces for efdirectory server a simple.

fective management from individual racks to large data center. All functions are available in the browser via a modern web GUI. KentixOS is licence-free and future updates will be available free of charge. New software versions can easily be distributed automatically to all clients via the PDU defined as a server. Thanks to SNMP V2/3 and the SNMP MIB Base, which can be easily downloaded from the PDU, integration into existing monitoring systems is very simple. monitoring systems is very simple.



Power consumption (kWh) Output (W, VA, kVar) Power (A) Voltage (V) Frequency (Hz)

Kentix SmartPDU – IP Smart Metering with SNMP and more. Central monitoring with radio, ModBUS and LAN



SmartPDU for easy integration

Application possibilities:

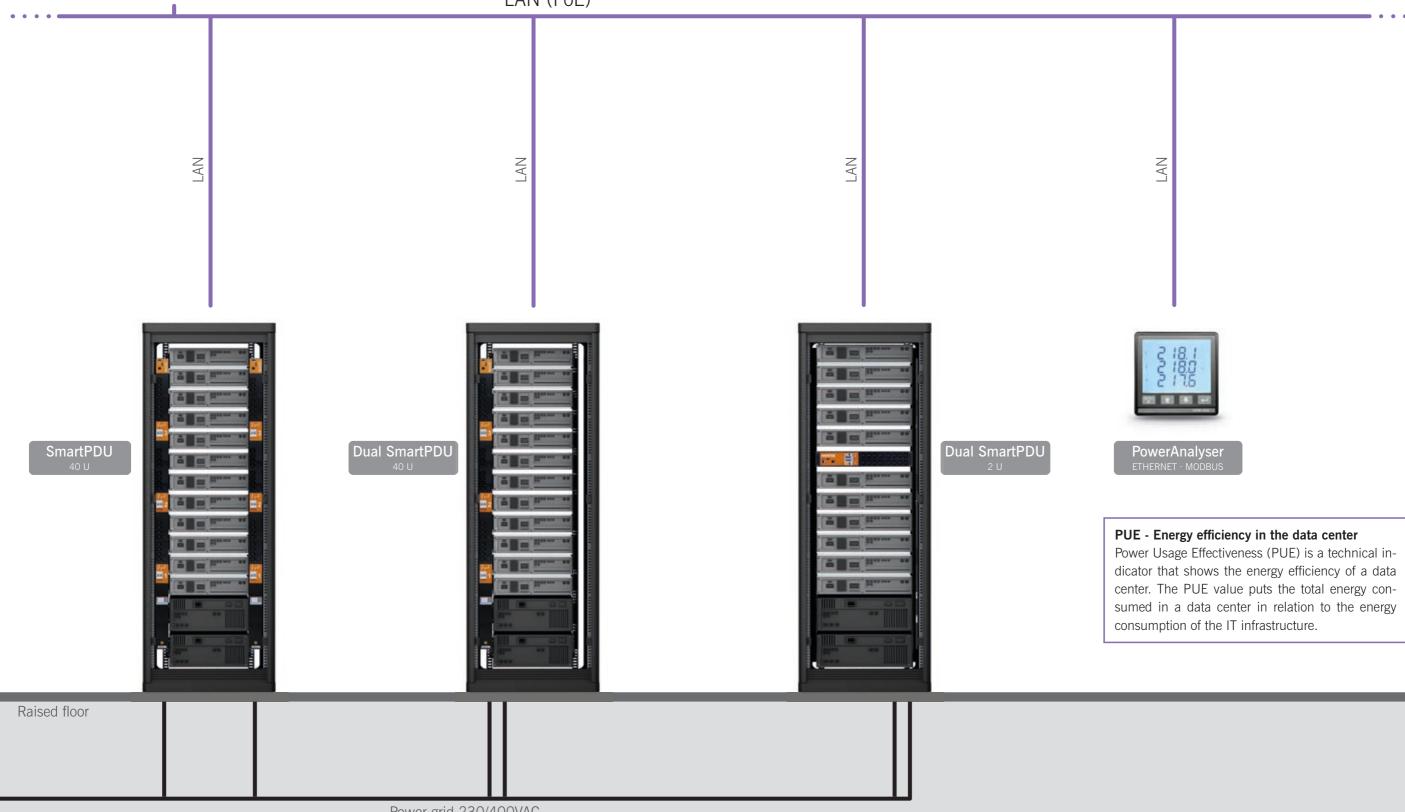
- Data center
- Measuring single racks (A+B)
- Customer billing colocation
- Network monitoring
- Technology distributors
- PUE measuring

Power factor Supply-phase fault RCM (AC/DC)



Web Easy control with any browser

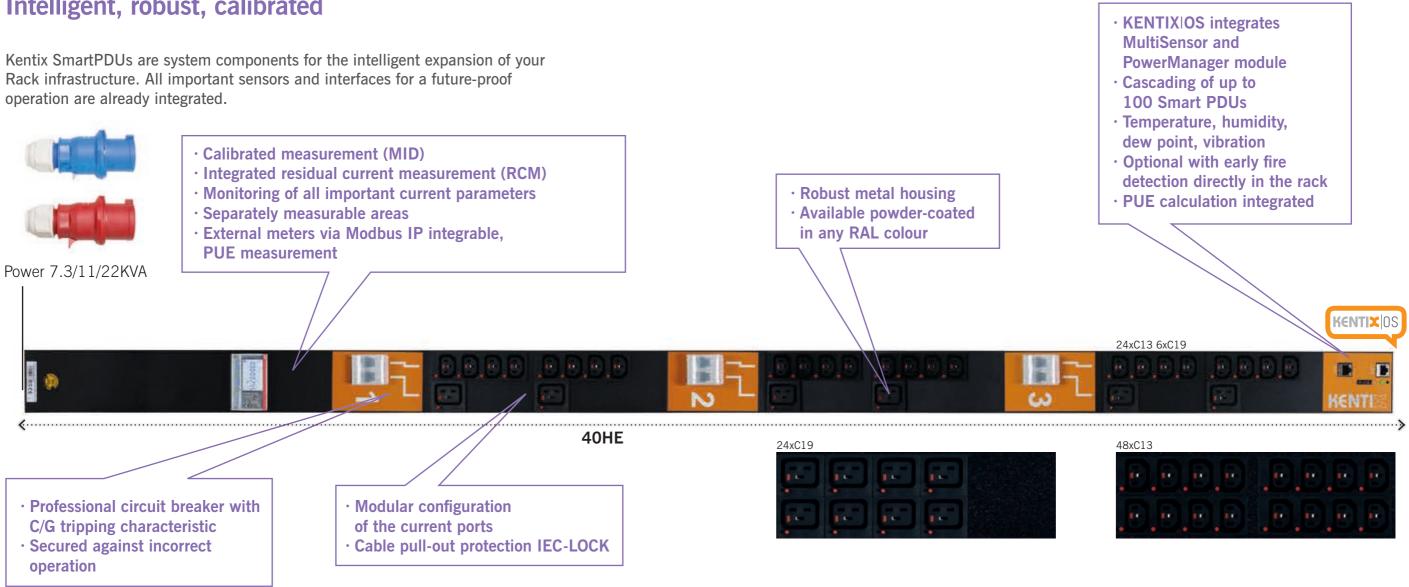




Power grid 230/400VAC

SmartPDU

High availability with Kentix SmartPDUs -Intelligent, robust, calibrated



Fail-safe power distribution with proven components

Intelligent, robust and calibrated: that was the formula erefore fully concentrated on the use of the most proven of robust and fail-safe power distribution. We have th- managed via the latest interfaces (SNMPv2/3, JSON).

for the development of our SmartPDU series. Together components from the field of power distribution. The rewith long-standing data center customers, we have sult is an ultra robust PDU that meets all requirements developed a PDU that meets the essential requirements for current measurement and monitoring and can be

Calibrated measurement with RCM and PUE calculation

can also be used in the colocation data center for le- server PDU can also read out an external main electrimonitoring (RCM) makes it possible to carry out the PUE (Power Usage Effectiveness) calculation. This meeven without switching off and contributes to higher available in the data center without external software. electrical safety as well as increased fire protection.

All "SmartPDU" models are equipped with calibrated The "SmartPDUs" work according to the server-client electricity measurement of the most important electri- principle. This means that a PDU (server) collects all city parameters. This means that the consumption data data from the connected client PDU. In addition, the

gally compliant billing. The integrated residual current city meter via Modbus Ethernet, thus enabling a direct required electrical device tests according to DGUV-V3 ans that one of the most important energy indicators is



- · All important current parameters monitored
- · Integr. residual current measurement (RCM)
- · Open interfaces SNMPv2/3
- and REST-API
- · Door contacts, leakage sensors and further system components can be connected

Easy management via Kentix PowerManager

No external software required. Kentix PowerManagers provide a webbased interface which contains the complete software - even for large data centers. The PUE (Power Usage Effectiveness) calculation including monthly reporting is integrated.

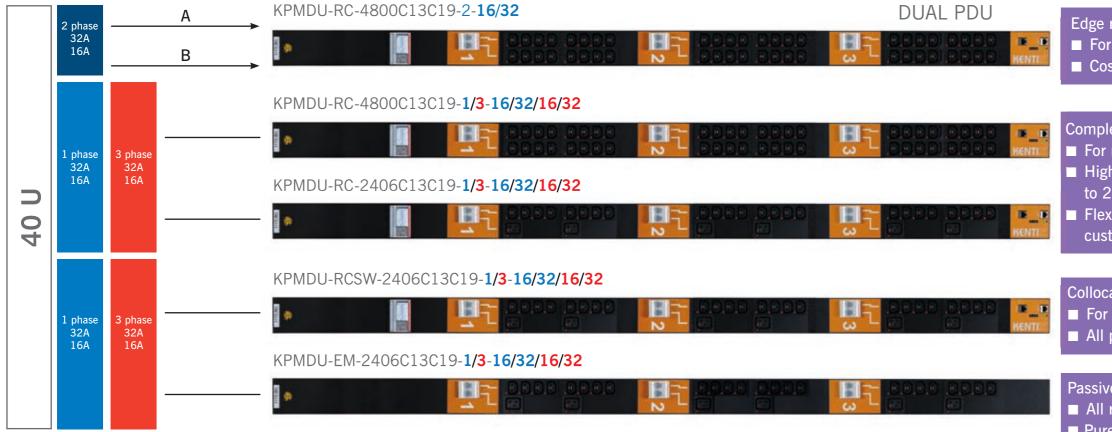
· Cascading of up to 100 SmartPDUs · Automatic Update Deployment • Encrypted and stable data transmission • Extendable with early edge

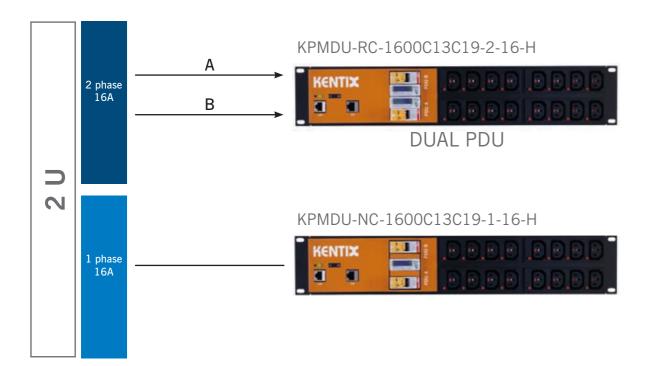
SmartPDU

- detection inside the rack
- PoE powered electronics, guaranteed
- monitoring even in case of power failure

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SmartPDU Systemübersicht





 Redundant Power 2 x 2 	rack sizes (15-25U) solution (dual PDU) 2,3 kW (optional 2 x 3,6 kW) pring, RCM, rack handle connection
Ideal for small ■ Power 1 x 3	rack sizes (15-25U) 3.6 kW

■ Rack monitoring, rack handle connection

SmartPDU

Edge racks, small data center ■ For racks 42 - 52U with less space ■ Cost-effective redundant solution

- Complete range of data center ■ For racks from 42 - 52U ■ High power requirements from 7.3 to 22 kVA
- Flexible configuration according to
 - customer requirements
- Collocation data center ■ For racks from 42 - 52U ■ All ports switchable and measurable
- Passive PDU without intelligence ■ All racks from 42 - 52 U Pure power distribution, manual measurement

Direct connection of the rack handle to the Kentix SmartPDU

The DoorLock-RA4 is an important system component with many advantages. In addition to stand-alone use, the lever can also be connected directly to a Kentix SmartPDU. On the one hand, this eliminates the need for cabling between the cabinets, on the other hand, the front and rear door handles of the cabinet are supplied redundantly via the PDUs. The SmartPDU takes over the management of the handle and the monitoring of the door contacts. Only a central AccessManager is then required as further hardware. Integration into an overall locking system system from Kentix is thus even solved.



Networking with SmartPDU



- 1) Kentix SmartPDU (An additional AccessManager in the network for convenient management of accesses is recommended)
- 2) Distribution box with connections for equipping two rack doors per PDU
- 3) Rack handle for front door
- 4) Door contact for front door
- 5) Rack handle for rear door
- 6) Door contact for rear door

Example of material compilation for 1 rack:

- 1 Stück ART: KXC-RA4-IP2-R Extension (right rotation)
- 1 Stück ART: KXC-RA4-IP2-L Extension (left rotation)
- 1 Stück ART: KXC-RA4-DB-BUS Distribution box for bus
- 2 Stück ART: KDC1-W Door contact



11

11,11

11

SmartPDU – 40U

All-in-one system solution consisting of SmartPDU and MultiSensor with 40 height units, RCM and calibrated current measurement. The already integrated PowerManager and MultiSensor make it easy to manage up to 100 SmartPDUs. The use of this PDU is ideal for server racks with high power consumption up to 22kVA. The electronics are powered by PoE. This means that in the event of a power failure, the sensors and the management of the PDUs continue to function thanks to the UPS-buffered PoE switch. In addition, further functions and digital inputs/outputs are available for control via the Kentix system port.



Technical details

Туре	KPMDU-RC-2406C13C19-3-32	KPMDU-RC-4800C13C19-3-32	KPMDU-RC-2406C13C19-1-32		
Nominal power, voltage	up to 22 kVA,230/400V	up to 13,8 kVA,230/400V	up to 7,3 kVA,230V		
Connector plug	CEE plug (RED) acc. to IEC60309,	CEE plug (RED) acc. to IEC60309,	CEE plug (BLUE) acc. to		
	5-pole, 32A/230/400V	5-pole, 32A/230/400V	IEC60309, 1-pole, 32A/230V		
Connection cable	Length 3 m	Length 3 m	Length 3 m		
Sockets C13 (IEC60320)	24	48	24		
Sockets C19 (IEC60320)	6	0	6		
Interlocking sockets		IEC-Lock for C13/C19			
	3 x 10A C-Type, locked		3 x 10A C-Type, locked		
Fuse / circuit breaker	(3 x 16A optional)	6 x 10A C-Type, locked	(3 x 16A optional)		
	3 x 16A C-Type, locked		3 x 16A C-Type, locked		
Current measurement (calibr.)	Integrated, calibrated current measured	urement, accuracy Class B (MID, EN	50470-3)		
Res. curr. measurement (RCM)	Integrated AC/DC sensitive differentia	al current meas. according to IEC 606	664-1, ±300 mA/100 mA (RMS)		
Connectivity	Ethernet (10/100 MBit) RS485, M	odbus RTU			
Kentix system port	RJ45 with Kentix specific assignment for system expansions				
Communication and security	HTTPS (certificate), integr. web server, REST-API, Prot.: SNMPv2/3 (GET, TRAP), NTP, SMTP, DHCP, DNS				
Management	Main Device-Satellite administration, SmartPDU or PowerManager configurable as MainDevice, up to 100				
	Satellites per Main Device, automat	ic software deployment			
Measurement/comm. objects	Voltage (V) L1/L2/L3/total, current (A) L1/L2/L3/total, consumption (kWh) L	_1/L2/L3/total, active power (W)		
	L1/L2L3/total, apparent power (VA) L1/L2/L3/total, reactive power (VAR) L1/L2/L3/total, Active factor (cos phi),				
	frequency (Hz), phase monitoring L1	/L2/L3, differential current AC, differen	tial current DC, fuse status L1/L2/L3,		
	temperature (°C), relative humidity (%	6), dew point (°C), Vibration (G), early	fire detection (carbon monoxide CO,		
	optionally via additional module)				
Display (LCD)	Backlit LCD display (power, current	, voltage, consumption)			
Optical signalling	LED with RED/GREEN (operation, a	alarm/fault status)			
Acoustic signalling	Signal generator with 80 dB, 2.3 k	Hz (alarm/error conditions)			
Housing	sheet metal, powder coated RAL90	05, protection class 1, protection cla	ass IP20, mounting bracket		
	mountable at a distance of 5U				
Size, weight	1770 x 78.2 x 62.5 mm (HxWxD)	, approx. 10.5 kg			
Ambient conditions	-10 °C to 55 °C, humidity 5-95%,	storage temperature: -20 °C to 60 °C			
Approval	CE (2014/30/EG, 2014/35/EG, 20	11/65/EU)			
Delivery content	SmartPDU with connection cable 3	m and plug, mounting material: 3 pi	ieces 90° angle bracket		

KENTIX OS

RCM

LAN

Ideal for edge computing applications

The Dual SmartPDU are two PDUs in one housing and are therefore particularly cost- and space-efficient. All the advantages of two separate PDUs with separate feed and intelligent monitoring are retained.



Technical details

Туре	KPMDU-RC-4800C13C19-2-16
Nominal power, voltage	2x3.6kVA,230V
Connector plug	CEE plug (BLUE) acc. to
	IEC60309, 1-pole, 32A/230V
Connection cable	Length 2x3 m
Sockets C13 (IEC60320)	2x24
Interlocking sockets	
Fuse / circuit breakerr	6 x 10A C-Typ, locked
Current measurement (calibr.)	Integrated, calibrated current measureme
Differenzstrommessung (RCM)	Integrated AC/DC sensitive differential cur
Connectivity	Ethernet (10/100 MBit) RS485, Modbus
Kentix system port	RJ45 with Kentix specific assignment for
Communication and security	HTTPS (certificate), integr. web server, R
Management	Main Device-Satellite administration, Sm
	Satellites per Main Device, automatic sof
Measurement/comm. objects	Voltage (V) L1/L2/total, Current (A) L1/L2/t
	Apparent power (VA) L1/L2/total, Reactive
	Phase monitoring L1/L2, differential currer
	relative humidity (%), dew point (°C),vibra
Display (LCD)	Backlit LCD display (power, current, volta
Optical signalling	LED with RED/GREEN (operation, alarm/
Acoustic signalling	Signal generator with 80 dB, 2.3 kHz (a
Housing	sheet metal, powder coated RAL9005, p
	mountable at a distance of 5U
Size, weight	1770 x 78.2 x 62.5 mm (HxWxD), appr
Ambient conditions	-10 °C to 55 °C, humidity 5-95%, storage
Approval	CE (2014/30/EG, 2014/35/EG, 2011/6
Delivery content	SmartPDU with connection cable 3m an

KENTIX OS

RCM

LAN

All-in-one system solution consisting of Dual SmartPDU with separate A+B feed and Multi-Sensorwith 40 height units, RCM and calibrated current measurement. The already integrated PowerManager and MultiSensor make it easy to manage up to 100 SmartPDUs. The electronics are supplied via PoE. This means that in the event of a power failure, the sensors and the management of the PDUs continue to function thanks to the UPS-buffered PoE switch. In addition, further functions and digital inputs/outputs are available for control via the Kentix system port.

KPMDU-RC-4800C13C19-2-32

2x7.3kVA,230V CEE plug (BLUE) acc. to IEC60309, 1-pole, 32A/230V Length 2x3 m 2x24

IEC-LOCK für C13

6 x 10A C-Typ, locked

ent, accuracy Class B (MID, EN 50470-3)

rrent meas. according to IEC 60664-1, \pm 300 mA/100 mA (RMS)

is RTU

or system expansions

REST-API, Prot.: SNMPv2/3 (GET, TRAP), NTP, SMTP, DHCP, DNS nartPDU or PowerManager configurable as MainDevice, up to 100 oftware deployment

/total, Consumption (kWh) L1/L2/total, Active power (W) L1/L2/total,

e power (VAR)L1/L2/total, Active factor (cos phi), Frequency (Hz),

nt AC, differential current DC, fuse status L1/L2, temperature (°C),

ation (G), early fire detection (CO, opt. via add. module)

tage, consumption)

/fault status)

alarm/error conditions)

protection class 1, protection class IP20, mounting bracket

orox. 10.5 kg

ge temperature: -20 °C to 60 °C

65/EU)

nd plug, mounting material: 3 pieces 90° angle bracket

KENTIX OS

RCM

LAN

Switchable, Metered SmartPDU – 40U

All-in-one system solution consisting of SmartPDU and MultiSensor with 40 height units, RCM and calibrated current measurement, as well as current measurement and switchability of the individual sockets. The already integrated PowerManager and MultiSensor make it easy to manage up to 100 SmartPDUs. The use of this PDU is ideal for server racks in the collocation area with high power consumption up to 22kVA. The electronics are powered by PoE, which means that in the event of a power failure, the sensors and the management of the PDUs continue to function thanks to the UPS-buffered PoE switch. In addition, further functions and digital inputs/ outputs are available for control via the Kentix system port. All functions such as the individually switchable and measured sockets can be controlled via the integrated REST API.



Technical details

Туре	KPMDU-RCSW-2406C13C19-3-32	KPMDU-RCSW-2406C13C19-3-16	KPMDU-RCSW-2406C13C19-1-32
Nominal power, voltage	up to 22 kVA,230/400V	up to 17,9 kVA,230/400V	up to 7,3 kVA,230V
Connector plug	CEE plug (RED) acc. to IEC60309,	CEE plug (RED) acc. to IEC60309,	CEE plug (BLUE) acc. to
	5-pole, 32A/230/400V	5-pole, 32A/230/400V	IEC60309, 1-pole, 32A/230V
Connection cable	Length 3 m	Length 3 m	Length 3 m
Sockets C13 (IEC60320)		24, individually switchable, individ	ually measured
Sockets C19 (IEC60320)		6, individually switchable, individua	ally measured
Interlocking sockets		IEC-Lock for C13/C19	
		3 x 10A C-Type, locked	
Fuse / circuit breaker		(3 x 16A optional)	
		3 x 16A C-Type, locked	
Current measurement (calibr.)	Integrated, calibrated current measu	urement, accuracy Class B (MID, EN	50470-3)
Res. curr. measurement (RCM)	Integrated AC/DC sensitive differentia	al current meas. according to IEC 606	64-1, ±300 mA/100 mA (RMS)
Connectivity	Ethernet (10/100 MBit) RS485, Mo	odbus RTU	
Kentix system port	RJ45 with Kentix specific assignme	nt for system expansions	
Communication and security	HTTPS (certificate), integr. web serv	ver, REST-API,	
	Prot.: SNMPv2/3 (GET, TRAP), NTF	P, SMTP, DHCP, DNS	
Management	Main Device-Satellite administration	n, SmartPDU or PowerManager confi	gurable as MainDevice, up to 100
	Satellites per Main Device, automat	ic software deployment	
Measurement/comm. objects	Voltage (V) L1/L2/L3/total, Current (A) L1/L2/L3/total, Consumption (kWh)	L1/L2/L3/total,
	Active power (W) L1/L2L3/total, Appa	arent power (VA) L1/L2/L3/total, React	ive power (VAR)L1/L2/L3/total,
	Active factor (cos phi), Frequency (Hz	z), phase monitoring L1/L2/L3, differer	ntial current AC,
	differential current DC, fuse status L1	/L2/L3, temperature (°C), relative hum	idity (%), dew point (°C),
	vibration (G), early fire detection (carb	oon monoxide CO, optional via addition	nal module)
Display (LCD)	Backlit LCD display (power, current	, voltage, consumption)	
Optical signalling	LED with RED/GREEN (operation, a	larm/fault status)	
Acoustic signalling	Signal generator with 80 dB, 2.3 kl	Hz (alarm/error conditions)	
Housing	sheet metal, powder coated RAL90	05, protection class 1, protection cla	ss IP20, mounting bracket
	mountable at a distance of 5U		
Size, weight	1770 x 78.2 x 62.5 mm (HxWxD),	approx. 10.5 kg	
Ambient conditions	-10 °C to 55 °C, humidity 5-95%, s	storage temperature: -20 °C to 60 °C	
Approval	CE (2014/30/EG, 2014/35/EG, 20	11/65/EU)	

Passive PDU – 40U

PDU without electronics as purely passive power distribution in the rack. Basic version like SmartPDU with preparation for electronic expansion.



Technical details

Туре	KPMDU-EM-2406C13C19-3-32	KPMDU-EM-4800C13C19-3-32	KPMDU-EM-2406C13C19-1-32		
Nominal power, voltage	up to 22 kVA,230/400V	up to 13,8 kVA,230/400V	up to 7,3 kVA,230V		
Connector plug	CEE plug (RED) acc. to IEC60309,	CEE plug (RED) acc. to IEC60309,	CEE plug (BLUE) acc. to		
	5-pole, 32A/230/400V	5-pole, 32A/230/400V	IEC60309, 1-pole, 32A/230V		
Connection cable	Length 3 m	Length 3 m	Length 3 m		
Sockets C13 (IEC60320)	24	48	24		
Sockets C19 (IEC60320)	6	0	6		
Interlocking sockets	IEC-Lock for C13/C19				
	3 x 10A C-Type, locked		3 x 10A C-Type, locked		
Fuse / circuit breaker	(3 x 16A optional)	6 x 10A C-Type, locked	(3 x 16A optional)		
	3 x 16A C-Type, locked		3 x 16A C-Type, locked		
Housing	sheet metal, powder coated RAL90	005, protection class 1, protection cla	ass IP20, mounting bracket		
Size, weight	1770 x 78,2 x 62,5 mm (HxBxT), approx. 10,5 kg				
Ambient conditions	-10 °C to 55 °C, humidity 5-95%, storage temperature: -20 °C to 60 °C				
Approval	CE (2014/30/EG, 2014/35/EG, 20	011/65/EU)			
Scope of delivery	SmartPDU with connection cable 3r	n and plug, mounting material: 3 piec	es 90° angle bracket		



SmartPDU – 2HE

All-in-one system solution consisting of SmartPDU and Multi-Sensor with only two height units and calibrated current measurement. The already integrated PowerManager and MultiSensor

make it easy to manage up to 100 SmartPDUs. The use of these PDUs is particularly intended for IDF racks, smaller office racks or telecommunication racks with a power of up to 1 x 2.3kVA. The electronics are powered by PoE, which means that in the event of a power failure, the sensors and the management of the PDUs continue to function thanks to a UPS-buffered PoE switch. In addition, further functions and digital inputs/outputs are available for control via the Kentix system port. The connection of up to 2 electronic rack levers for intelligent access management makes the SmartPDU particularly interesting for distributed IT cabinets.



Technical details

Туре	KPMDU-NC-1600C16C19-1–16-H
Nominal power, voltage	1x 2.3kVA, 230V
Connector plug	1x C20 cold appliance socket (16A) on the rear
Connection cable	Not included in the scope of delivery, different versions available
Sockets	C13 (IEC60320) 16 pieces
Locking	IEC-Lock for C13
Fuse/protective switch	2x 10A C-type, locked
Current measurement (calibrated)	Integrated, calibrated current measurement, accuracy Class B (MID, EN 50470-3)
Connectivity	Ethernet (10/100 MBit), RS485, Modbus RTU
Kentix system port	RJ45 with Kentix specific assignment for system expansions
Communication and security	HTTPS (certificate), integrated web server, REST-API, port security 802.1x,
	protocols: SNMP V2/3 (GET, TRAP), NTP, SMTP, DHCP
Management	Standalone or Kentix PowerManager (KPM-100), Software deployment (updates)
Measurement/comm. objects	Voltage (V) total, Current (A) total, Consumption (kWh) total, Active power (W) total,
	Apparent power (VA) total, Reactive power (VAR) total, Active factor (cos phi), Frequency (Hz),
	Phase monitoring, Residual current AC, Residual current DC, Fuse status, Temperature (°C),
	Relative humidity (%), Dew point (°C), Vibration (G)
Display (LCD)	Backlit LCD display (power, current, voltage, consumption)
Optical signalling	LED with RED/GREEN (operation, alarm/fault status)
Acoustic signalling	Signal generator with 80 dB, 2.3 kHz (alarm/error conditions)
Housing	Sheet metal housing, powder coated RAL9005, protection class 1, protection class IP20
Size, weight	450 x 88 x 120 mm (WxHxD), approx. 3.0 kg
Ambient conditions	-10 °C to 55 °C, humidity 5-95%, storage temperature: -20 °C to 60 °C
Approval	CE (2014/30/EC, 2014/35/EC, 2011/65/EU)
Delivery content	SmartPDU

RCM KENTIX OS LAN

All-in-one system solution consisting of SmartPDU and MultiSen-sor with only two height units, RCM and calibrated current meaà = = surement. The already integrated PowerManager and MultiSensor make it easy to manage up to 100 SmartPDUs. The use of these PDUs is particularly intended for IDF racks, smaller office racks or telecommunication racks with a power of up to 2 x 2.3kVA. The electronics are supplied by PoE, which means that in the event of a power failure, the sensors and the management of the PDUs continue to function thanks to a UPS-buffered PoE switch. In addition, further functions and digital inputs/outputs are available for control via the Kentix system port. The connection of up to 2 electronic rack levers for intelligent access management makes the SmartPDU particularly interesting for distributed IT cabinets.



Technical details

Тур	KPMDU-RC-1600C16C19-2-16-H
Nominal power, voltage	2 x 2.3kVA (2 x 3,6kVA optional), 230V
Connector plug	2x C20 cold appliance socket (16A) on th
Connection cable	Not included in the scope of delivery, diffe
Sockets	C13 (IEC60320) 16 Stück (2 x 8)
Locking	IEC-Lock for C13
Fuse/protective switch	2x 10A C-type, locked
Current measurement (calibrated)	Integrated, calibrated current measuremen
Differenzstrommessung (RCM)	Integrierte AC/DC sensitive Differenzstromm
Connectivity	Ethernet (10/100 MBit), RS485, Modbus
Kentix system port	RJ45 with Kentix specific assignment for s
Communication and security	HTTPS (certificate), integrated web server,
	protocols: SNMP V2/3 (GET, TRAP), NTP,
Management	standalone or Kentix PowerManager (KPM
Measurement/comm. objects	objects Voltage (V) total, Current (A) total,
	(VA) total, Reactive power (VAR) total, Acti
	current AC, Residual current DC, Fuse stat
	Vibration (G)
Display (LCD)	Backlit LCD display (power, current, voltage
Optical signalling	LED with RED/GREEN (operation, alarm/fa
Acoustic signalling	Signal generator with 80 dB, 2.3 kHz (ala
Housing	Sheet metal housing, powder coated RALS
Size, weight	450 x 88 x 120 mm (WxHxD), approx. 3
Ambient conditions	-10 °C to 55 °C, humidity 5-95%, storage
Approval	CE (2014/30/EC, 2014/35/EC, 2011/65
Delivery content	SmartPDU

Dual SmartPDU – 2HE

he rear

erent versions available

ent, accuracy Class B (MID, EN 50470-3)

messung nach IEC 60664-1, ±300 mA/100 mA (RMS)

s RTU

system expansions

r, REST-API, port security 802.1x,

, SMTP, DHCP

M-100), Software deployment (updates)

, Consumption (kWh) total, Active power (W) total, Apparent power

tive factor (cos phi), Frequency (Hz), Phase monitoring, Residual

atus, Temperature (°C), Relative humidity (%), Dew point (°C),

age, consumption) 'fault status) arm/error conditions) 9005, protection class 1, protection class IP20 3.0 kg e temperature: -20 °C to 60 °C

5/EU)



record videos

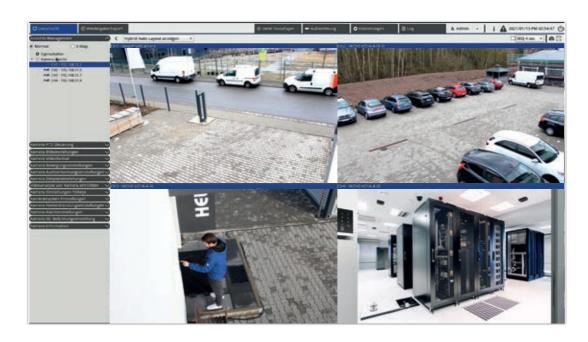
Kentix systems detect threats early and report them immediately. For a quick assessment of critical states in remote sites, video recording is essential. Kentix systems transmit system and video information in one message.



Seamless integration of IP video cameras into Kentix systems – event-synchronic images and alarms

Kentix systems detect threats early, report them im-Basically all network cameras that enable the query of video images via HTTP/HTTPS are supported. mediately or log authorized and unauthorized access. A video recording simultaneously to the alarms Popular camera manufacturers are pre-installed with and events enables a fast assessment of critical examples. states even in remote sites. In connection to additio-The following systems support video recording: nal measurement values, it becomes particularly AlarmManager (KAM-BASIC/PRO) reliable this way.

Kentix systems use the advantage of consistently IP-based systems and can access video data from IP network cameras directly. These are recorded continuously. In the case of an event, pictures prior to and after the event can be connected, saved and transmitted. The advantage lies in the synchronic information of measured data and images in one system; thereby, the search for an external video storage is discontinued.



Kentix systems can be expanded to 128GB via microSD cards and store over 100,000 video sequences.





Entire software already included, apps available

Secure remote opening and control via Kentix360

- MultiSensor-LAN (KMS-LAN)
- AccessManager (KXP-16)
- IP Wall Reader (KXCX-WA3-IP1)

Application possibilities:

- IT engineering rooms
- Remote technology stations
- Critical production areas
- Remote storage facilities
- Depots and warehouses
- Medicine cabinets



AlarmManager: Central monitoring unit with radio, LAN and 4G

IP camera provides event-synchronic images



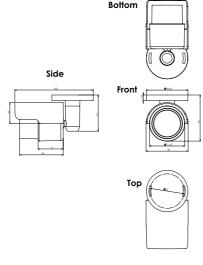
Network camera in bullet housing



Bullet network camera for integration into Kentix systems. The camera can be easily assigned to alarm zones or doors in AlarmManager or AccessManager. The camera delivers images with full HD resolution. The camera's adjustable focal length (FOV 35-95°) makes it ideal for monitoring IT and technical areas indoors and outdoors. Especially under dark lighting conditions, almost all decisive image details are captured thanks to the LED infrared illuminator. The varifocal lens with remote zoom ensures easy configuration and installation of the network IP camera. Thanks to the ONVIF standard, it can also be integrated into video management systems.

Products

Туре Item number Network Camera 2MP Bullet Housing KX-BC1A-2-IR Network Camera 4MP Bullet Housing KX-BC1A-4-IR



IP66 DAY-NIGHT

Network camera in dome housing



Dome network camera for integration into Kentix systems. The camera can be easily assigned to alarm zones or doors in AlarmManager or AccessManager. The camera delivers images with full HD resolution. The camera's adjustable focal length (FOV 35-95°) makes it ideal for monitoring IT and technical areas indoors and outdoors. Especially under dark lighting conditions, almost all decisive image details are captured thanks to the LED infrared illuminator. The varifocal lens with remote zoom ensures easy configuration and installation of the network IP camera. Thanks to the ONVIF standard, it can also be integrated into video management systems.

Products

Туре

Item number

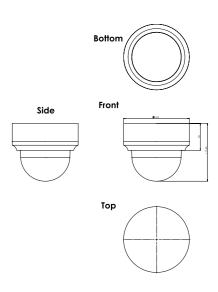
Network Camera 2MP Dome Housing KX-VD1A-2-IR Network Camera 4MP Dome Housing KX-VD1A-4-IR

Technical details

	Connection	RJ45
	Spannungsversorgung	2MP: PoE (IEEE802.3af, Class 0) 5.6W, 4MP: PoE (IEEE802.3af, Class , IR III
	Temperature range	-30 °C-60 °C / 10 %-90 %rh, non-condensing
	Network	RJ45, 10/100 MBit/s Ethernet
	Image Sensor	1/3" Progressive CMOS
	Effective pixels	2MP: 1920(H) x 1080(V), 4MP: 2720(H) x 1536(V)
	Minimum lighting	Colour: 0.1 lux, B/W: 0.01 lux, IR illumination integrated, range approx. $15 \mathrm{m}$
	Shutter speed	1-1/10000 sec.
	Signal-to-noise ratio	> 50 dB
	Focal length - Lens	2.8-12 mm, Manual varifocal lens
	Aperture	F1.4
	Image angle	91.61 °(wide angle); 34.3 ° (telephoto)
	Interface	RJ45, 10/100 MBit/s Ethernet
	Video compression	H.264/MJPEG
	Protocol	ARP, IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCF
		IGMP, SNMP, QoS, ONVIF
	Security	HTTPS/IP-Filter/IEEE 802.1X
	Alarm signalling	HTTP/FTP/SMTP
	SD card	microSD card (SDHC/SDXC) up to 64 GB supported
	Size	Metal outer housing with cable supply: ø 71.5 x 150.53 x 91.15 mm
	Weight	330 g
	Protection class	IP66
	Approval	CE/FCC, EN 50130-4;IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC610
		IEC61000-4-6

Technical details

Connection	RJ45
Spannungsversorgung	PoE (Class 2), 5.6W
Temperature range	-30 °C-60 °C / 10 %-90 %rh, non-condensing
Network	RJ45, 10/100 MBit/s Ethernet
Image Sensor	1/3" Progressive CMOS
Effective pixels	2MP: 1920(H) x 1080(V), 4MP: 2720(H) x 1536(V)
Minimum lighting	Colour: 0.1 lux, B/W: 0.01 lux, IR illumination integrated, range approx. 15m
Shutter speed	1-1/10000 sec.
Signal-to-noise ratio	> 50 dB
Focal length - Lens	2.8-12 mm, Manual varifocal lens
Aperture	F1.4
Image angle	91.61 °(wide angle); 34.3 ° (telephoto)
Interface	RJ45, 10/100 MBit/s Ethernet
Video compression	H.264/MJPEG
Protocol	ARP, IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP,
	IGMP, SNMP, QoS, ONVIF
Security	HTTPS/IP-Filter/IEEE 802.1X
Alarm signalling	HTTP/FTP/SMTP
SD card	microSD card (SDHC/SDXC) up to 64 GB supported
Size	Metal outer housing with cable supply: ø 71.5 x 150.53 x 91.15 mm
Weight	330 g
Protection class	IP66
Approval	CE/FCC, EN 50130-4;IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5,
	IEC61000-4-6



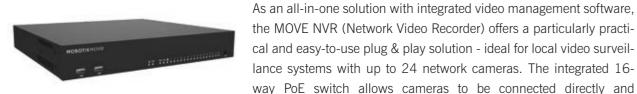
5.6W, 4MP: PoE (IEEE802.3af, Class , IR Illumination -condensing

TSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP,

1-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5,

SmartVideo

24-CHANNEL 16 X PoE



Products

Туре Network Video Recorder (14TB) KX-S-NVR1A-16-POE

Item number

Technical details

Maximum number of cameras	24 (16 on the internal LAN/PoE sockets), total PoE budget 140W, 30W per socket
Network	1 LAN, 1 WAN 10/100/1000MBit/s, 16 LAN-PoE sockets 10/100MBit/s
Display Port Output	1920 x 1080@60Hz (Full-HD)
HDMI Output	1920 x 1080@60Hz (Full-HD)
USB sockets	USB 2.0 (2x front), USB 3.0 (2x back) for keyboard, mouse
Operating system, CPU, graphics	Embedded Linux, Intel Apollo Lake J3455, Intel HD Graphicss
IP-CAM data rate	average: 160MBit/s, peak 240MBit/s
Hardware decoding	24 channels real-time display up to 720Byte/s@D1 decoding
Video compression	H.264/H.265
Browser support	Internet Explorer 10 or higher with ActiveX recommended for best performance
Protocol	ARP, IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE,
	UPnP, IGMP, SNMP, QoS, ONVIF
Security	HTTPS/IP-Filter/IEEE 802.1X
Alarm signalling	HTTP/FTP/SMTP
Video storage	14TB hard disk already integrated, expandable up to 28TB
Housing	280 x 300 x 44 mm, 19" installation 1HE, protection class IP20, weight: 3kg
Power supply	External power supply 100-240VAC, 200W
Temperature range	0 - 40°C, 10-90% non-condensing
Approvals	CE/FCC, EN 50130-4;IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5,
	IEC61000-4-6

Digital Network Video Recorder

disconnected from the main network.

Front

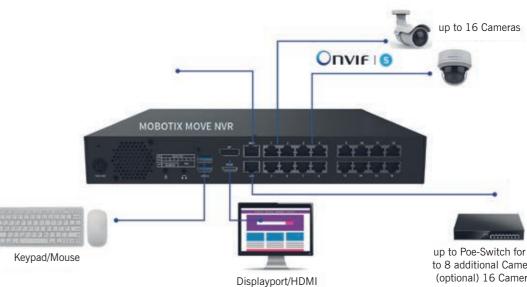


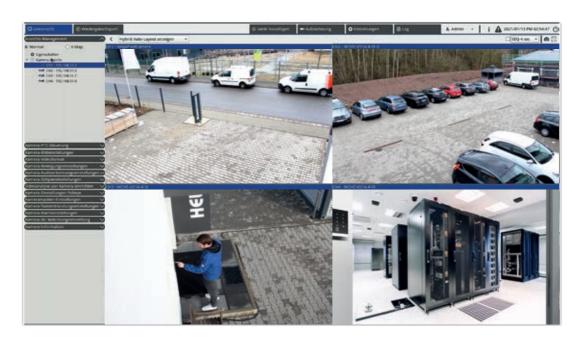
Connections



Vorteile

- Easy plug & play: as soon as you have connected cameras and monitor to the MOVE NVR, you can see live images directIX
- Day-to-day use does not require any special video knowledge
- Direct connection option for up to two high-resolution displays, keyboard, mouse and joystick
- One or two additional hard disk drives (HDD) per NVR are required for operation
- Once installed, there are no further costs with the MOVE NVR system
- Local standalone video systems are safe from cyberattacks





Compact end-to-end video solution for numerous ap- guaranteed. All connected cameras are supported by plications in small and medium-sized data centers and the integrated, cost- and license-free MOVE NVR video equipment rooms - whenever the existing video analy- management software, which is tailored to the MOBOsis functions of the MOVE network cameras are suffi- TIX MOVE cameras. cient and a recording of the data must essentially be

up to Poe-Switch for up to 8 additional Cameras (optional) 16 Cameras



Kentix360 – complete overview at any time

Access and remote control of all important functions, with Kentix Digital Key for secure door opening via smartphone or watch

Kentix360 is the cloud-based security center for monitoring business-critical IT infrastructures. The solution in conjunction with the Kentix Mobile App provides administrators with information about the status of their Kentix system anytime, anywhere. The administrator is directly informed of alarms and

The key features of the app

- Digital key for opening doors via smartphone or smartwatch
- Management of access authorisations
- Display of system status and logbook
- Arming and disarming of the system
- Display of sensor measurements
- Displays all doors (open/closed)
- Live video view with door opener function

Advantages:

- Secure app access from anywhere
- Push-messages on Smartphone and integrated e-mail service
- Daily system check
- SIM card for redundant alarm SMS in the Included in delivery (optional registration)
- No additional external cloud service provider needed

Security:

- Encrypted communication
- No open ports from the outside
- Multi-level authentification with ID and password
- Brute force detection with lock
- Hosting in german data center

Kentix360

- 96,00 Euro / Year / Device plus VAT (Minimum term 12 Month) Usable with AlarmManager, AccessManager or StarterSets
- Secure app access from anywherel
- Push and e-mail notifications
- Configurable routine check
 Unlimited number of users per device









Kentix360 SIM-Karte

72,00 Euro / Year plus VAT or. 600 Alarm-SMS can be used with AlarmManager or StarterSets

Can only be activated in conjunction with Kentix360 (optional use)
 Uses the network of the german telecom
 Kentix360-SIM in each StarterSet
 Contains 600 alarm SMS messages that need to be recharged after consumption or one year

Compliance with BSI basic protection for certification according to ISO 27001 in server/technical rooms

An ISO 27001-compliant basic protection for a server dium recommends the following measures (the higher equipment room/data center with one or more server/ the ordinal number, the more stringent the recomequipment cabinets is to be established with managea- mendation: A1-11 = basic requirements) in addition ble installation and investment costs. The INF-Infra- to the implementation of fire, structural and climatic structure module of the BSI IT-Grundschutz-Kompen- measures:

INF.2.A5	Maintaining the air temperature
	and humidity
INF.2.A6	Access control
INF.2.A7	Locking and securing
INF.2.A8	Use of a fire alarm system
INF.2.A11	Automated monitoring of the
	Infrastructure

INF.2.A15	Surge protector
INF.2.A16	Air conditioning in the data center
INF.2.A17	Early fire detection
INF.2.A18	Protection against water leakage
INF.2.A22	Implementation of Dust
	protection measures
INF.2.A24	Use of video surveillance systems



Access control on a it rack

Kentix provides everything required for ISO 27001 au- The AlarmManager-PRO combines all connected senditing on the above points. The combination of environmental monitoring (temperature, humidity, movement, fire gases, etc.) and access control, which at Kentix always goes hand in hand with documentation of alarm and access, forms the basis. In addition, all modern on, SMNP and e-mail are used.

sors and reports irregularities to any intervention centre using the above mentioned reporting channels and redundantly, e.g. in case of complete power failure via 4G/SMS. This also applies to external infrastructures connected via SNMP or fault contact outputs such as and common reporting channels such as VdS activati- UPS or air conditioning systems. In addition, further sensors, such as a leakage sensor, can be connected to the AlarmManager-PRO to additionally monitor water leakage.

The MultiSensor-RF supplies all critical environmental data (see above) and can, for example, accommodate further MultiSensor-DOOR for door status monitoring and/or DustSensors for monitoring contamination in the server/technology cabinet.

The AccessManager not only monitors and documents the access at up to 16 doors, it also puts them online 24/7 to be informed in real time about each access.

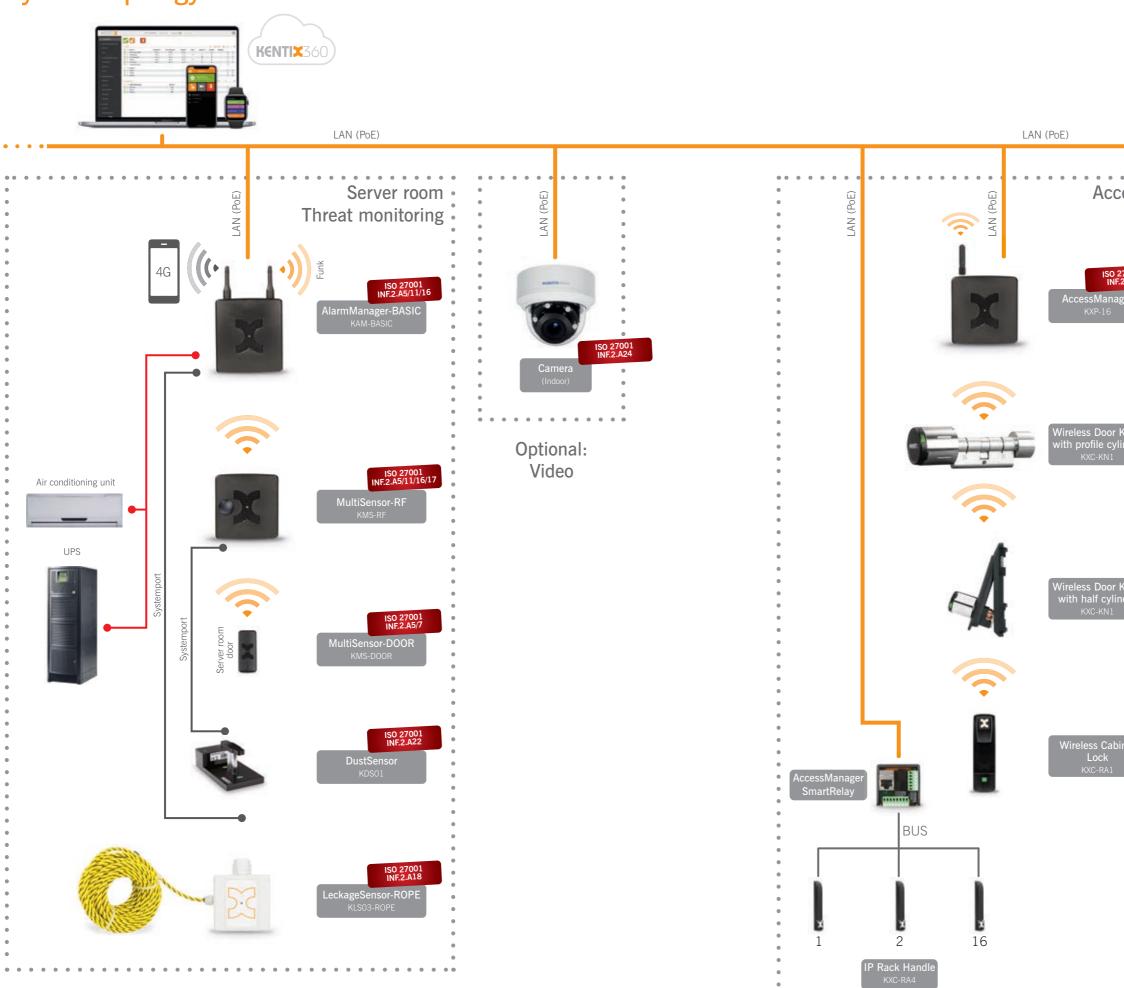
With the wireless door knob, whether with half or Last but not least, a complete integration of IP network standard profile cylinder, most doors and many server/ cameras is implemented in all modules of the Kentix technology cabinets can be converted with electronic system. Thereby every event, every access and other disturbances are documented with corresponding locking technology in no time at all. Other server/technology cabinet types are alternatively secured with a picture material.



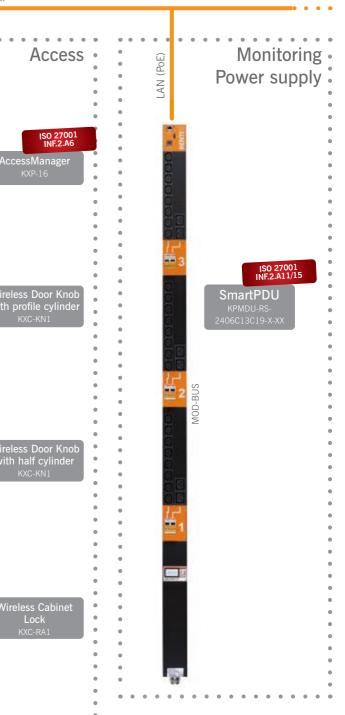
Access control and monitoring for cold and warm aisle

cable- or radio-bound RFID cabinet lock. To counter further dangers, which are also part of the ISO 27001 certification, Kentix SmartMetering can be used. With the robust SmartPDUs, not only can calibrated consumption measurements be made or irregularities in the power supply or consumption be detected. Overvoltage protection or 24/7 leakage current measurement (RCD) provide additional safety.

System topology server room



• •



Fully digital Car-Sharing access system for new urban everyday concepts

not only by their attractive location and modern ar- be ensured. chitecture, but also by their pioneering, urban everyday concepts of the future. One part of these concepts is the use of a Car-Sharing service in large cities. One or more Car-Sharing providers will provide around 300 vehicles in about 35 underground car parks for use by residents. The booking and provision of the vehicles will be completely digitalised via mobile apps, which also includes area-wide access to the underground car parks as well as exit and entry documentation for the vehicles.

To meet this contemporary requirement, one access system must be used per underground car park that communicates with the Car-Sharing provider's backend system via standard IP protocols (REST-API and/or LDAP) in "real time":

- User and access code for temporary access to the designated underground car park
- Feedback & documentation of the access system about the user's access to the underground car park and, if necessary, deletion of the granted access authorization
- Feedback & documentation of the access system about leaving (rental start) and returning (end of rental) of the vehicle
- Monitoring of the access door and the exit/entry gate to report an open gate

well as the possibility to open all doors and gates from a central location (or via app) in case of an emergency, is essential for an efficient operation of the system. The message (WebHook). In addition, a gate contact can overall system should be produced with manageable integration and investment costs of a complete system solution, if possible from one source.

Lowest maintenance effort, use of standardized IP/IT protocols (non-proprietary), simple handling, full scal- of documentation for granted accesses as well as entry

Newly created districts of large cities often captivate ability and thus highest investment security should also

The Kentix SmartAccess access system is used, which fulfils all the conditions above, including central 24/7 management of each individual door across any number of locations. A REST-API, WebHooks and LDAP functionality, unique for this product segment, allow the Kentix system to be easily and smartly integrated into a central back-end system of a Car-Sharing service provider. The Kentix SmartRelay with connected IP wall reader provides access to the underground car park. The temporary access code generated by the back-end system is transmitted to the module connected to PoE (class 3) via REST-API or LDAP and the access door is opened when the code is entered into the IP wall reader.

The access to the underground car park is documented in the system and a set WebHook sends the access information in real time to the backend system, which can then remove the access authorization if necessary. The switching outputs of the network relay module are supplied with power, which makes a separate power supply for the operation of a motor lock or buzzer unnecessary (simple installation). A magnetic door contact can optionally be connected to one of the two potential-free inputs of the SmartRelay in order to send an alarm via network message or e-mail after a defined time interval when the door is open.

At the entrance and exit there is a RFID long-range reader connected to a second Kentix SmartRelay, for use. With of the underground car park to avoid an open door or a range of 3m or 8m, the long-range readers enable reliable recognition of special RFID cards (UHF/Mifare) that can be stuck to the inside of the vehicle windows. When A central, simple management of the entire system, as a vehicle is detected, the underground garage door is opened, the entry or exit is documented and reported back to the backend system for processing via network also be connected to the network relay module to send an alarm message if the gate is not locked.

> As an option, it is possible to integrate existing IP video cameras into the system and thus create a further level

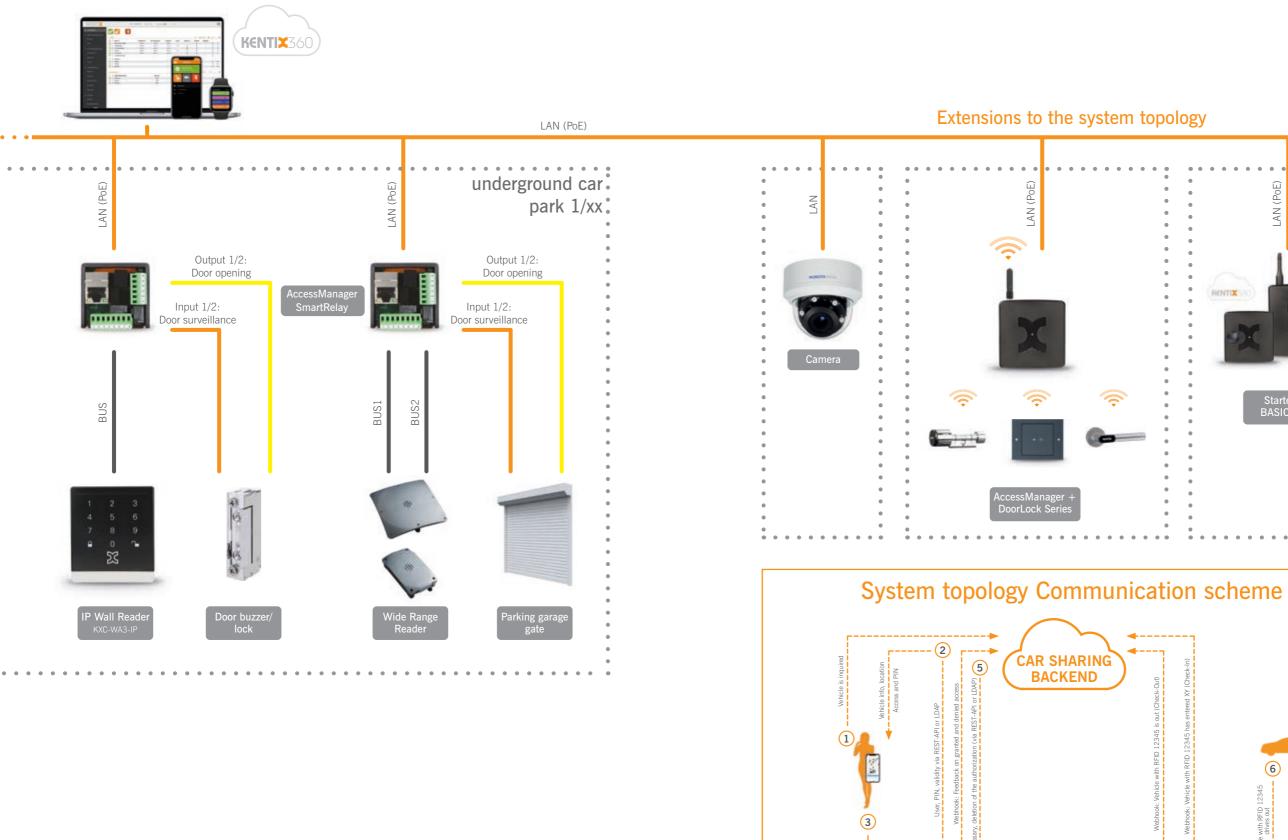
and exit. A redundant protection of the power supply of the entire system including the door opening and 100% IP, RFID, etc.) with as few components as posmonitoring can be created very easily by means of a sible and no licensing costs for software or updates, re-UPS, as the power supply of the entire system is exclusults in efficient total costs for the entire system that can be planned, especially over the lifetime of the system. sively via PoE. On request, the system can also be operated via the Kentix app, so that, for example, remote opening of doors and gates is possible in an emergency. There are no limits to the Kentix system for further expansion of the system to other locations worldwide or to With Kentix, large cities receive an access system for Car-Sharing services that already meets the latest reother service providers. Due to the decentralized system quirements, especially for future-oriented everyday conarchitecture (IoT) and the omission of local server infracepts. Standardised, generally recognised, well-known structure, the Kentix SmartAccess system is freely scaland non-proprietary IP interfaces such as the REST-API able at any time and further beyond the access modules or LDAP provide a future-proof and easy-to-make interdescribed above. A combination of the SmartAccess face to the back-end system of the Car-Sharing service system with the Kentix monitoring system is also posprovider. Solid, high-quality hardware and the most stasible at any time in order to monitor any important enble software, both "Designed & Made in Germany", guvironmental conditions (temperature, humidity, CO/fire arantee the lowest maintenance effort with the highest gases, etc.) in sensitive/critical areas and to add them to availability, security and investment protection. A simthe overall system in a sensible way.



Remote user access to car parking area

ple, modern system architecture (including PoE supply,

System topology



(4)

.....

Access to underground car park 1/xx

HENTIX Ś StarterSet-BASIC/-PRO

6 8 (7) (9) Exit/entrance to underground car park 1/xx

Integratable locking and monitoring solution for IT racks in a large hospital

The aim of this project is to protect server racks at different locations of a hospital against unauthorized access and to monitor the status of the rack doors with an online-capable solution for managing authorizations, time ensure complete 24/7 documentation of access. profiles, access logging and notification.

Cabinets can be easily opened using existing RFID AccessManager provide the door status at any time. media, so that user-related logging is always performed. Alternatively, cabinets can be opened by the administrator via the web front-end or remotely via the Kentix Mobile App. Authorisations can be granted or withdrawn individually. If required, the solution can be REST-API, which makes it future-proof and scalable at extended to other rooms/areas and combined with video surveillance in order to document an image documentation of authorised or unauthorised access.

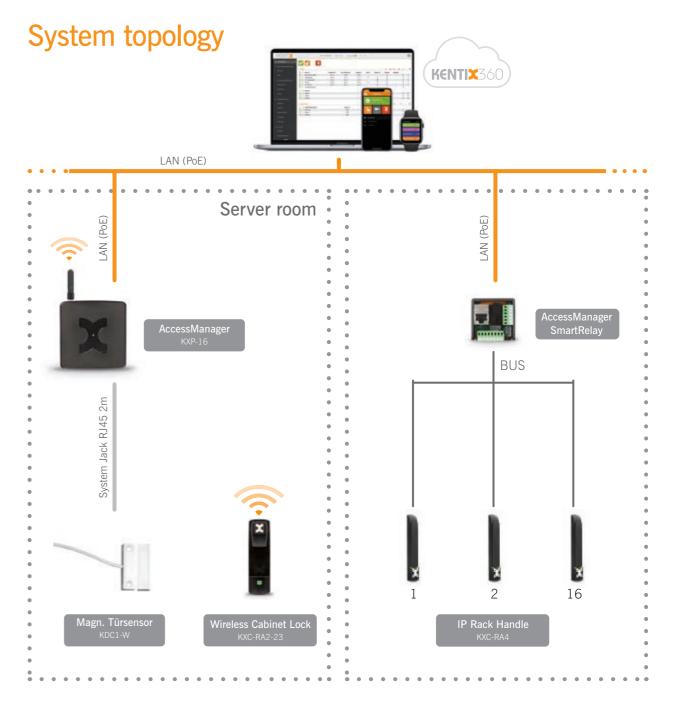
The Kentix solution is based on the simplicity of the hardware and software developed and produced by

Kentix in Germany. Each IT cabinet is alternatively equipped with a wired or wireless RFID cabinet lock, each of which is connected to an AccessManager to

Additional magnetic door sensors connected to the All AccessManagers are organised in master/slave mode, making it very easy to manage and operate large systems at any time. The entire system is based on IP and follows common standards such as LDAP and any time, e.g. if more cabinets or doors need to be controlled or other multiple environmental data needs to be monitored (e.g. temperature, humidity, movement, vibration, CO (fire gas), etc.)

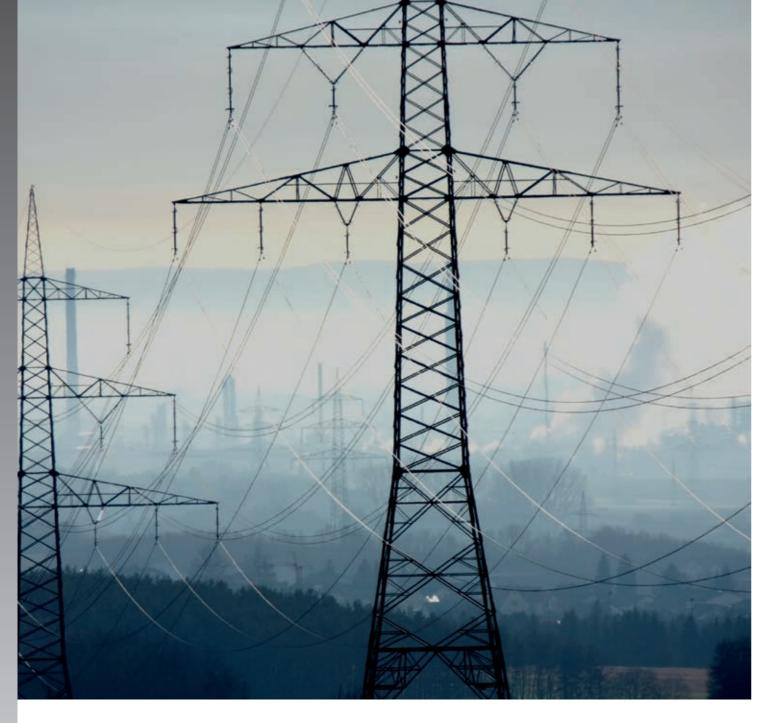


Simple and secure access control in a hospital



With the above solution, Kentix provides an installati-Large projects can be carried out on a server-based on-friendly and low-maintenance system. All Accesssoftware to ensure highest system performance. All Manager are PoE powered and can be easily protected changes as well as regular system updates can be against power failures with a UPS. The entire softdistributed to the entire system with just a few clicks. ware is included as KENTIX|OS with free updates. An Support for SNMPv2/3 and REST-API ensures easy AccessManager provides the web front-end as master. and complete integration into third-party monitoring systems.

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MUNICIPAL UTILITIES AND SUPPLIERS

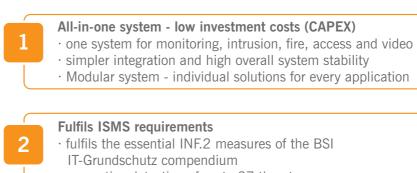
Physically secure critical infrastructures and efficiently implement requirements of the ISMS according to ISO 27001

In addition to cyber security, many responsible persons in municipal utilities and suppliers underestimate physical dangers that can paralyse the technical infrastructure in server and technical rooms. These include, for example, smouldering fires from faulty insulation that can lead to a fire, water ingress, excessive temperature and humidity or unauthorised access to non-public areas.

Facts and need for action

About 77% of all companies experience system faipart of the ISO 27001 audit where auditors most often lures every year, of which about 50% are due to physifind the greatest deficiencies. cal hazards. The lack of physical protection is also the

>> TOP 5 KENTIX SYSTEM ADVANTAGES



- preventive detection of up to 37 threats
- · Avoidance of downtime costs and image damage

State-of-the-art industrial IoT system

- · unlimited scalability high investment security
- Operation across multiple locations
- · Easy integration into third-party systems through open interfaces (SNMP, REST-API, WebHooks, AD etc.)



3

User-friendly - simple management

- · intuitive, central web frontend (no client software, no servers) Central user rights management (no manual intervention and no
- complicated key management)
- · iOS/Android apps for admin and users



Cost-efficient - reduced operating costs (OPEX) · no software licence costs

- simple administration
- low maintenance costs



Efficiently implement requirements of the ISMS according to ISO 27001

In order to avoid disruptions and to achieve the often of the general operation of an ISMS. With this certifiobligatory and necessary basic IT protection at municipal utilities and suppliers, critical infrastructures must meet high requirements in the area of IT security. The German Federal Office for Information Security (BSI) image, claims for damages, etc. In addition, the certihas presented a concept for the certification of infor- ficate issued by an independent body documents that mation security management systems (ISMS). The ISO 27001 certification is considered as documented proof

cation, organisations can actively protect themselves against IT failures and the resulting consequential damages such as delivery failures, repair costs, loss of sufficient IT security is guaranteed.

With Kentix, the following measures of the BSI IT-Grundschutzkompendium, among others, can be fulfilled with manageable installation and investment costs:

INF.2.A5	Maintaining air temperature and humidity
INF.2.A6	Access control
INF.2.A7	Locking and securing
INF.2.A8	Use of a fire alarm system
INF.2.A11	Automated monitoring of the infrastructure
INF.2.A13	Planning and installation of hazard detection systems
INF.2.A16	Air conditioning in the data center
INF.2.A17	Early fire detection
INF.2.A18	Protection against water leakage
INF.2.A22	Implementation of dust protection measures
INF.2.A24	Use of video surveillance systems

The Kentix All-In-One System for Monitoring, Intrusion, Fire, Access and Video

Networkable system components for physical plant monitoring, access control, fire and intrusion detection as well as intelligent power consumption measurement create an individually tailored overall concept for efficient physical all-round protection of critical infrastructures. The Kentix system is infinitely scalable and grows with the increasing requirements of the company. All processes are documented in real time in a DSGVO-compliant manner, can be made available to third-party systems and forwarded to appropriately responsible persons. Impending dangers can thus be foreseen and avoided.

What is the status in the individual areas and who has accessed where and when? With the central KentixOS, IT managers always have everything in view



Basic protection monitoring of critical infrastructures at municipal utilities and supply companies

77 % of all companies suffer system failures every patible I/O module so that they are also connected to year, of which about 50 % are due to physical hazards. the AlarmManager as a result. Therefore, all rooms with critical infrastructures should be monitored for all important physical hazards such Kentix SmartAccess components for access control doas overtemperature, excessive humidity, unauthorised cument uninterrupted 24/7 access and entry. accesses and access control. As each locking point is access, fire and more in order to achieve ISMS compliance according to ISO 27001. The implementation always online, it is easy to manage user authorisations is to be realised by means of an integral, user-friendly from a central location at any time. system with manageable installation and investment costs. In order to protect against all major hazards in the

To cover these requirements, a Kentix AlarmManager-PRO, MultiSensor-TI and a leakage sensor are used for each of the main locations. This means that all major hazards can already be reliably protected. The seamlessly integrated into the overall system. All de-AlarmManager takes over the evaluation of all sensor data for the main and secondary locations, all alarms via SNMP, e-mail, push messages and redundantly via

SMS using an integrated SIM card. The system is monitored and administered via a web interface, the KentixOS, which is provided with the de-The MultiSensor-TI creates a highly reliable 4-factor vices and requires no server or client software. The early fire detection. In addition to monitoring CO gases Kentix All-in-One system also always remains freely (No. 1 fire gas), air quality and temperature changes, scalable and can be expanded at any time. The open critical areas such as UPS are monitored for their mainterfaces (including REST API, WebHooks, SNMP, ximum surface temperature with the thermal sensor. etc.) ensure simple, up-to-date integration of the Ken-A leakage sensor is connected to the MultiSensor-TI, tix system into third-party systems. Due to licence-free which reliably detects water ingress or leaks. Existing software and updates, investment costs remain at a sensors such as door contacts, motion and fire detec- low level in the long term. tors are integrated into the system via a network-com-

secondary locations, a MultiSensor-TI and a leakage sensor connected to it are used in each case. The Kentix SmartAccess system is also used here as a radio system. It can be easily installed in existing doors and vices are supplied by PoE and fed to the overall system via a virtual network.



Physische Datacenter-Security

Kentix

LANLine readers vote Kentix "Vendor of the Year 2020" in Physical Datacenter Security



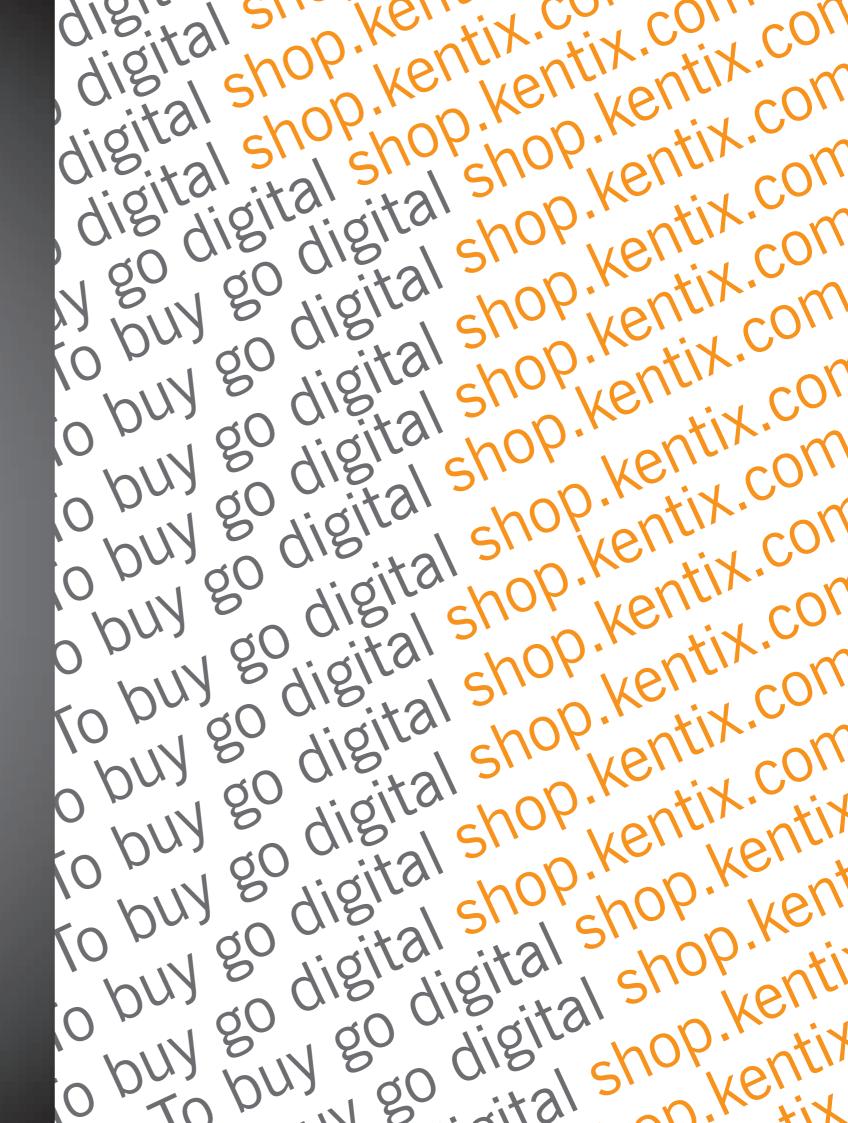
Kentix GmbH was awarded the prize of the Rhein-Nahe-Hunsrück 2020 regional initiative for the commitment shown in the Corona pandemic and the development of the SmartXcan



DoorLock StarterSet-PRO wins funkschau Award "ITK Product of the Year" in the category Physical security in the 2019 reader survey



MultiSensor-LAN wins funkschau Award "ITK Product of the Year" in the Physical Security category in the 2017 readers' poll



The All-In-One security system for monitoring, intrusion, fire, access, video and power where everything fits together.

Physical all-round protection of **IT infrastructures** and more. With ingeniously simple networkable **IoT** system components.

