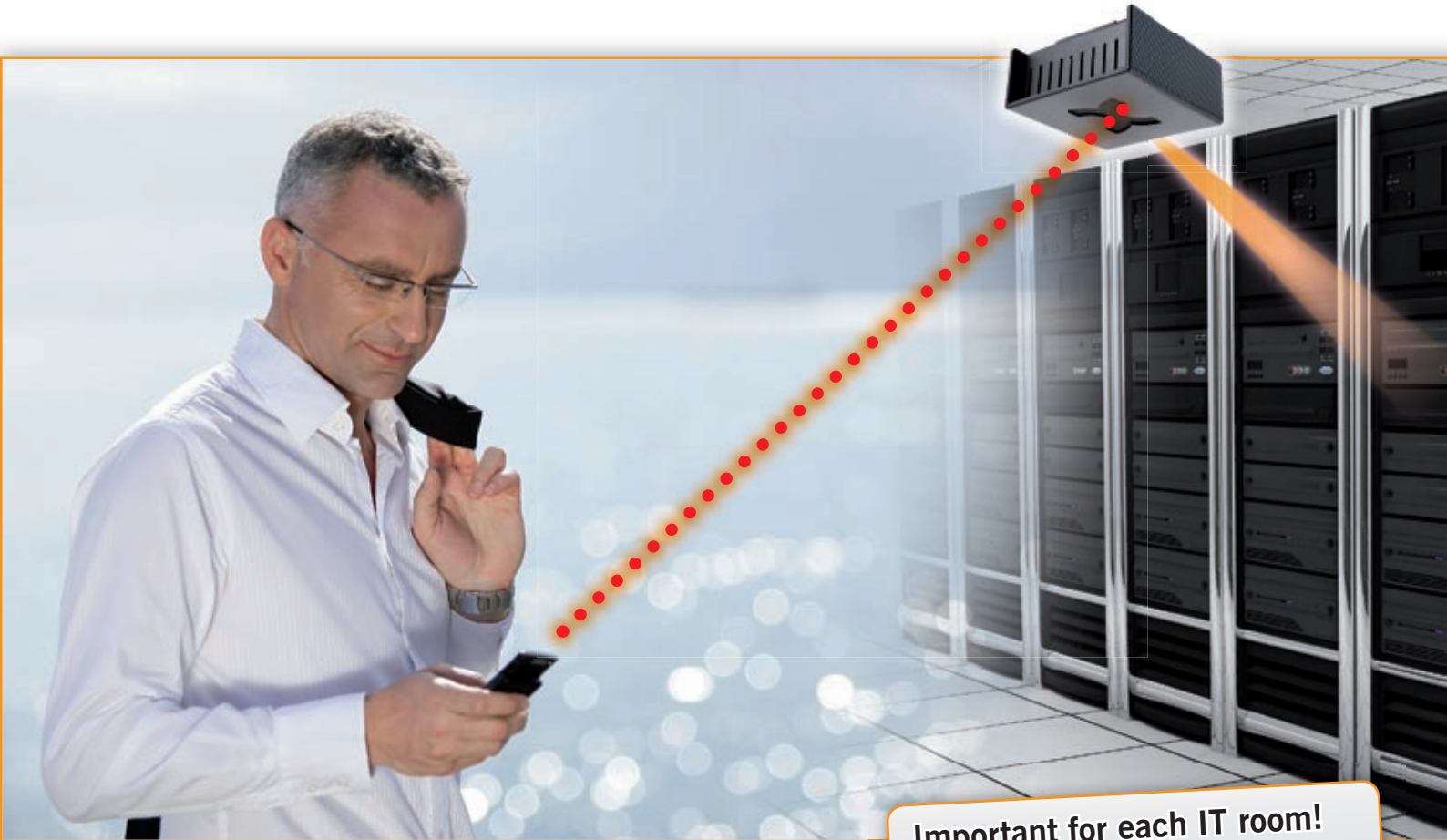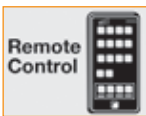# KENTIX
## Innovative Security

## The superior server room monitoring
## All in one - remote control - plug´n play

**Important for each IT room!**
- Ensuring IT availability - risk protection
- World wide information by GSM
- Easy to install (wireless communication)

Remote Control

SMS E-Mail SNMP

LAN

GSM inside SIM

ZigBee®

Monitoring of all risk areas in IT- and server-rooms with the innovative Kentix MultiSensor system.

Early detection of all risks in the server room and rack ■
Real-time alerting - GSM integrated ■
Plug'n play installation ■
Data Logging ■

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**Temperature**

**Humidity**

**Dew point**

**Motion Detection**

**Carbon Monoxide**

**Power Supply**

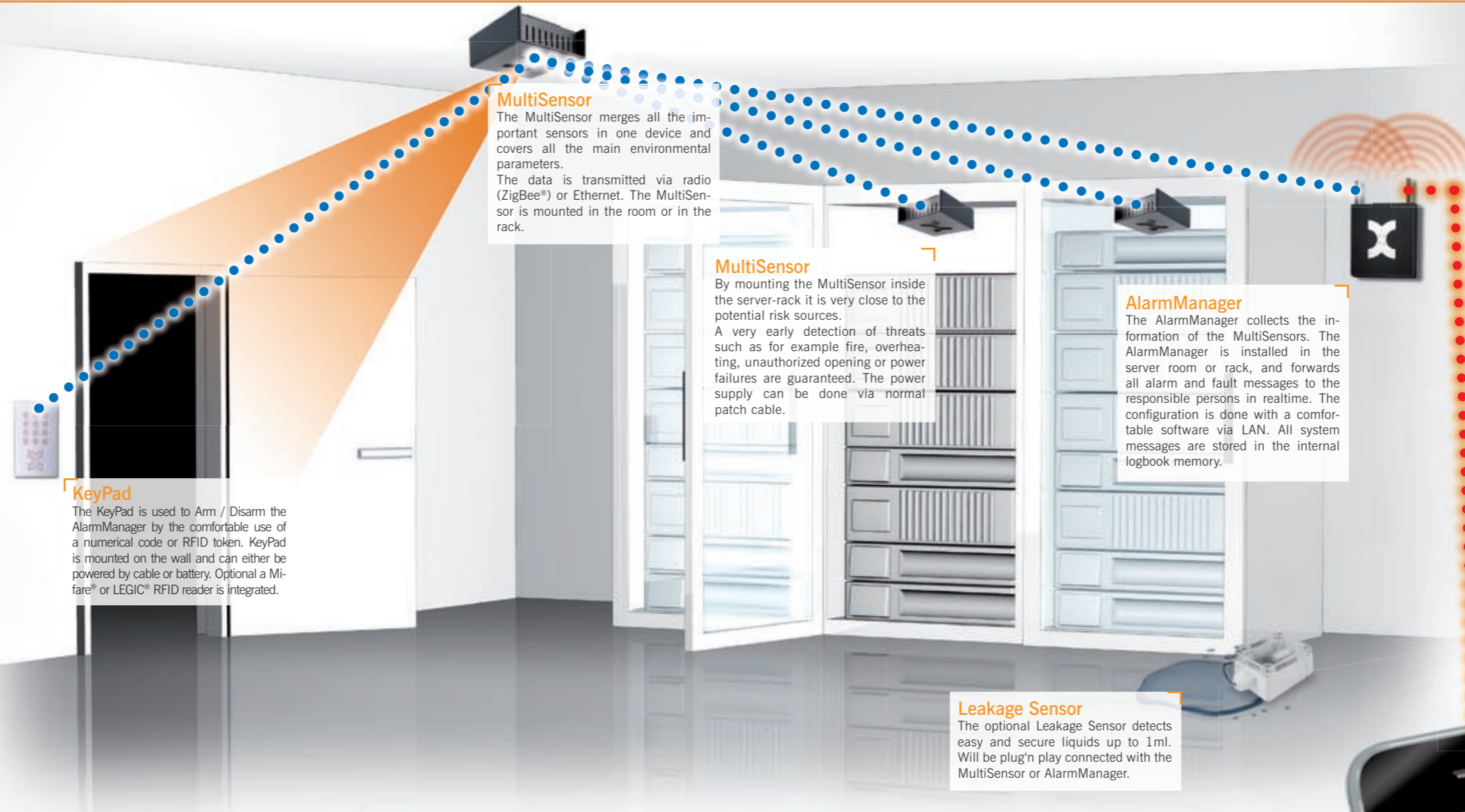**MultiSensor**
The MultiSensor merges all the important sensors in one device and covers all the main environmental parameters.
The data is transmitted via radio (ZigBee®) or Ethernet. The MultiSensor is mounted in the room or in the rack.

**MultiSensor**
By mounting the MultiSensor inside the server-rack it is very close to the potential risk sources.
A very early detection of threats such as for example fire, overheating, unauthorized opening or power failures are guaranteed. The power supply can be done via normal patch cable.

**AlarmManager**
The AlarmManager collects the information of the MultiSensors. The AlarmManager is installed in the server room or rack, and forwards all alarm and fault messages to the responsible persons in realtime. The configuration is done with a comfortable software via LAN. All system messages are stored in the internal logbook memory.

**KeyPad**
The KeyPad is used to Arm / Disarm the AlarmManager by the comfortable use of a numerical code or RFID token. KeyPad is mounted on the wall and can either be powered by cable or battery. Optional a Mifare® or LEGIC® RFID reader is integrated.

**Leakage Sensor**
The optional Leakage Sensor detects easy and secure liquids up to 1ml. Will be plug'n play connected with the MultiSensor or AlarmManager.

## Effective protection of the physical risks in IT- and server-rooms.

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

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

Protecting your IT against the most common risks:

- Enviromental disruption
- Physical theft
- Human errors
- Sabotage

### Benefits:

- Threat detection - rapid response times, low costs
- Lower staff costs due to automatic monitoring
- Reduce staffing requirements - reduced liability risk
- Lower operating costs through remote monitoring
- Low investment costs - easy and hassle free installation
- ROI within 1 year - once in prevention only one failure

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

All data of the MultiSensors are collected and evaluated in the AlarmManager. The AlarmManager also has the task to monitor the sensor network cyclically and message error conditions.

A GSM modem for independent transmission of alarm messages is integrated. The responsible staff and persons will be so informed in real time on any error conditions. Messages will be send as SMS, E-Mail or SNMP traps. The AlarmManager could be remote controlled by any mobile phone with simple SMS commands to get state informations or set the system to armed or disarmed state. The commands are protected by password and phone number.
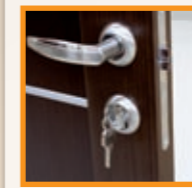
# One device that detects all threats in the server-room and rack - The Kentix MultiSensor

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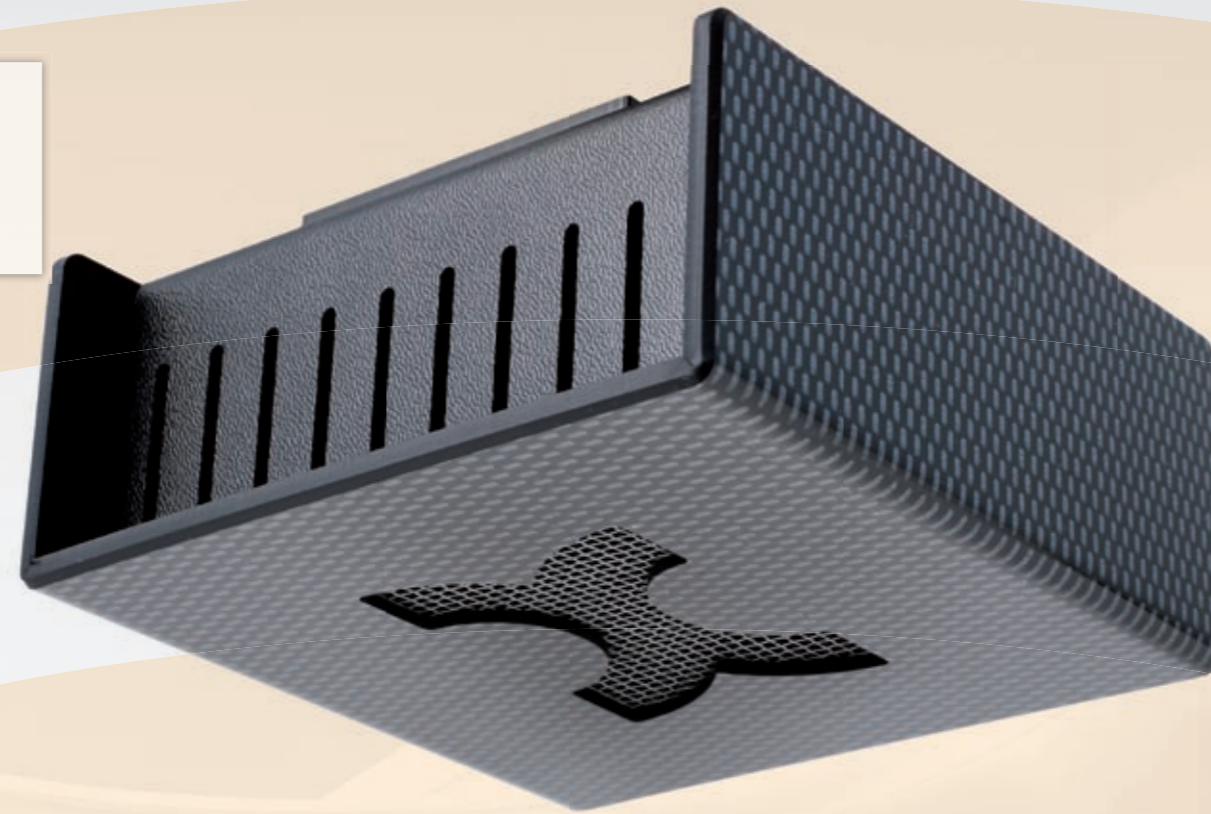
### Temperature
- monitoring the temperature
- control of cooling or heating

### Humidity
- monitoring the humidity
- monitoring air conditioning

### Dew Point
- monitoring the dew point
- avoid condensation

### Power Supply
- monitoring the external power supply
- bridging and reporting of power failure

### Carbon Monoxide (CO)
- fire detection via high-sensitivity CO sensor
- early detection of fires

### Microwave motion detector
- Fast motion detection
- Reliable detection of unauthorized People

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

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

### External Alarm I/O outputs
- Control of external devices such as alarm sirens, flashing lights
- Remote control of external devices

### Acoustic signalization
- Integrated Buzzer for acoustic alarm

### ZigBee® wireless transmission
- Encrypt transmission of sensor data to the AlarmManager
- Long range and security through mesh networking

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# Datasheet:

| | MultiSensor-LAN KMS-LAN | MultiSensor-RF KMS-RF | AlarmManager-BASIC/-PRO KAM-BASIC/-PRO | KeyPad KKP® |
|---|---|---|---|---|
| Functions | All in one sensor system with ethernet<br>Integrated web server<br>SNMP (V2) with MIB<br>SNMP Trap<br>Works with AlarmManager PRO | All in one sensor system with ZigBee®<br>Works with AlarmManager Basic or Pro | Max 10 KMS-RF (Basic)<br>Max 30 KMS-LAN/RF (Pro)<br>Max 10 user accounts (Basic)<br>Max 20 user accounts (Pro)<br>SMS, E-Mail, SNMP<br>SMS remote control<br>Logbook for 100 events | Armed-disarmed<br>Selection of 3 alarm zones<br>LED, buzzer feedback<br>Optional with RFID reader |
| Sensor temperature | -40 to 99°C | -40 to 99°C | – | – |
| Sensor Relative Humidity | 0 to 100% | 0 to 100% | – | – |
| Dew Point | calculated | calculated | – | – |
| Sensor motion detector | PIR sensor, sensitivity free selectable<br>Aperture: 100°<br>Range: appr. 12m | PIR sensor, sensitivity free selectable<br>Aperture: 100°<br>Range: appr. 12m | – | – |
| Sensor carbon monoxide | 0-10.000ppm<br>Measurements ± 10%<br>Resolution: 20-200ppm | 0-10.000ppm<br>Measurement ± 10%<br>Resolution: 20-200ppm | – | – |
| Internal Buzzer | 85dB, 2.3kHz | 85dB, 2.3kHz | 85dB, 2.3kHz | 70dB, 2.3kHz |
| Ext. Alarm Input | For external dry contact (Alarm, Sabotage) | For external dry contact (Alarm, Sabotage) | For external dry contact (Alarm, Armed-Disarmed) | – |
| Ext. Alarm Output | 2 x Open Collector 0.1A/12V (Alarm, Remote-Switching) | 2 x Open Collector 0.1A/12V (Alarm, Remote-Switching) | 2 x Relay (Alarm 1, Alarm 2) | – |
| LED | ALARM (red)<br>RUN (yellow) | ALARM (red)<br>RUN (yellow) | ALARM (red)<br>ARMED (red)<br>RUN (yellow)<br>GSM (yellow) | ZONE (orange)<br>ARMED (orange)<br>DISARMED (orange) |
| Chassis | Material: PS<br>90x90x45mm<br>Weight ca. 120g<br>Color: White, Carbon Black | Material: PS<br>90x90x45mm<br>Weight ca. 100g<br>Color: White, Carbon Black | Material: PS<br>130x90x45mm<br>Weight ca. 300g<br>Color: White, Carbon Black | Material: PS<br>135x90x14mm<br>Weight ca. 100g<br>Color: White |
| Radio | ZigBee 2,4GHz ISM Band<br>+3dBm output power<br>IEEE802.15.4 | – | ZigBee® 2,4GHz ISM Band<br>+3dBm output power<br>IEEE802.15.4 | ZigBee® 2,4GHz ISM Band<br>+3dBm output power<br>IEEE802.15.4 |
| LAN | 10/100Mbit<br>integrated web server | – | 10/100Mbit<br>integrated web server (PRO) | – |
| GSM | – | – | Quad Band (GSM/GPRS)<br>850/900/1800/1900MHz | – |
| Power supply | 9-72VAC/DC, PoE,<br>power consumption appr. 1W<br>PoE class 1 | 9-72VAC/DC, PoE<br>power consumption appr. 0,5 W | 10-32VAC/DC<br>power consumption appr.<br>3W (BASIC), 4W (PRO) | Battery or external 10-32VAC/DC, power consumption appr. 0.1W |
| UPS Power supply | ca. 4 minutes | ca. 4 minutes | ca. 3 minutes | – |
| Types | KMS-LAN-B/W<br>B = Chassis Carbon/Black<br>W = Chassis White | KMS-RF-B/W<br>B = Chassis Carbon/Black<br>W = Chassis White | KAM<br>B = Chassis Carbon/Black<br>W = Chassis White | KKP<br>KKP-LEGIC<br>KKP-MIFARE |
| Content of Delivery | Modular cable 5m<br>Mounting Bracket | Mounting Bracket | Power Supply<br>Antenna, Software, PowerAdapter, Mounting material | Battery<br>3 pc. RFID Token (RFID) |
| Accessories | Power Supply (KOP)<br>Power-Adapter (KIO1) | Power Supply (KOP)<br>Power-Adapter (KIO1) | Power-Adapter (KIO1) | RFID Token (Legic®, Mifare®) |

# All components at a glance:

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KMS-RF-B

KMS-RF-W

KAM-BASIC-B/PRO-B

KAM-BASIC-W/PRO-W

## MultiSensor-RF (ZigBee®)

The MultiSensor merges all the important sensors in one device and covers all the main environmental parameters. The data is transmitted via radio (ZigBee®). The MultiSensor is mounted in the room or in the rack.

## AlarmManager-BASIC/-PRO

The AlarmManager collects the information of the MultiSensors. The AlarmManager is installed in the server room or rack, and forwards all alarm and fault messages to the responsible persons in realtime. The configuration is done with a comfortable software via LAN. All system messages are stored in the internal logbook memory.

KMS-LAN-B

KMS-LAN-W

KKP

## MultiSensor-LAN

The MultiSensor-LAN merges all important sensors in one device and covers all main environmental parameters. The data transmitted via ethernet. The MultiSensor-LAN is equipped with an integrated web server and an extensive SNMP interface. Power over ethernet is available.
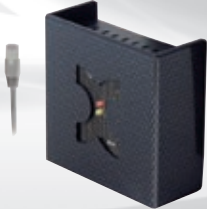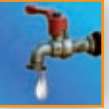
## KeyPad (ZigBee®)

The KeyPad is used to Arm / Disarm the AlarmManager by the comfortable use of a numerical code or RFID token. KeyPad is mounted on the wall and can either be powered by cable or battery. Optional a Mifare® or LEGIC® RFID reader is integrated.

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# Select a system:

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## MultiSensor-LAN – from 475,00 Euro
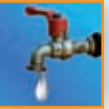
Temperature | Luftfeuchte | Taupunkt | Brand | Bewegung | Ext. In / Out | Leckage (opt.)

- ☑ LAN
- ☐ wireless
- ☐ GSM
- ☑ E-Mail
- ☐ SMS
- ☐ rooms>20sqm
- ☑ rack
- ☐ server room
- ☐ key pad

## CompleteSet 1 BASIC – from 950,00 Euro　　　　wireless
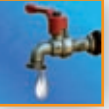
Temperature | Humidity | Dew point | Fire | Motion detector | Ext. IO outputs | Leakage (opt.)

- ☑ LAN
- ☑ Wireless
- ☑ GSM
- ☑ E-Mail
- ☑ SMS
- ☐ Rooms>20 sqm
- ☑ Rack
- ☑ Server room
- ☐ KeyPad

## CompleteSet 2 BASIC – from 1590,00 Euro　　　　wireless

Temperature | Humidity | Dew point | Fire | Motion detector | Ext. IO outputs | Leakage (opt.)

- ☑ LAN
- ☑ Wireless
- ☑ GSM
- ☑ E-Mail
- ☑ SMS
- ☑ Rooms>20 sqm
- ☑ rack
- ☑ Server room
- ☑ KeyPad

All prices are listprices in Euro plus VAT. Our offer is only adressed to business customers.

# About Kentix

Kentix GmbH is developing, producing and marketing innovative security solutions for the monitoring of server rooms, equipment rooms and infrastructure as well as office space. The merger of many different sensors in just one functional unit, the MultiSensor technology makes Kentix monitoring systems much more efficient than conventional systems.

With the use of mesh networking radio systems and advanced web technologies Kentix systems can be cost-effectively integrated. Kentix products avoid disrupting the operating environment, systems secure against theft and sabotage, and report the impact of human error behavior. Kentix system solutions are increasing the IT availability and essentially return the investment within a short period.

Presented by:

Innovative Security
**KENTIX**
System + Partner

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