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

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

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

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

- **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

- **Microwave motion detector**
  - Fast motion detection
  - Reliable detection of unauthorized people

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

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

- **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

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

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

www.kentix.de
### Datasheet:

<table>
<thead>
<tr>
<th>Functions</th>
<th>MultiSensor-LAN KMS-LAN</th>
<th>MultiSensor-RF KMS-RF</th>
<th>AlarmManager-BASIC/-PRO KAM-BASIC/PRO</th>
<th>KeyPad KKP KKP-LEGIC KKP-MIFARE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor temperature</td>
<td>-40 to 99°C</td>
<td>-40 to 99°C</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Sensor Relative Humidity</td>
<td>0 to 100%</td>
<td>0 to 100%</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Dew Point</td>
<td>calculated</td>
<td>calculated</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Sensor motion detector</td>
<td>PIR sensor, sensitivity free selectable Aperture: 100° Range: appr. 12m</td>
<td>PIR sensor, sensitivity free selectable Aperture: 100° Range: appr. 12m</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Sensor carbon monoxide</td>
<td>0-10.000ppm Measurements ± 10% Resolution: 20-200ppm</td>
<td>0-10.000ppm Measurement ± 10% Resolution: 20-200ppm</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Internal Buzzer</td>
<td>85dB, 2.3kHz</td>
<td>85dB, 2.3kHz</td>
<td>85dB, 2.3kHz</td>
<td>70dB, 2.3kHz</td>
</tr>
<tr>
<td>Ext. Alarm Input</td>
<td>For external dry contact (Alarm, Sabotage)</td>
<td>For external dry contact (Alarm, Sabotage)</td>
<td>For external dry contact (Alarm, Armed-Disarmed)</td>
<td>–</td>
</tr>
<tr>
<td>Ext. Alarm Output</td>
<td>2 x Open Collector 0.1A/12V (Alarm, Remote-Switching)</td>
<td>2 x Open Collector 0.1A/12V (Alarm, Remote-Switching)</td>
<td>2 x Relay (Alarm 1, Alarm 2)</td>
<td>–</td>
</tr>
<tr>
<td>LED</td>
<td>ALARM (red) RUN (yellow)</td>
<td>ALARM (red) RUN (yellow)</td>
<td>ALARM (red) ARMED (red) RUN (yellow) GSM (yellow)</td>
<td>ZONE (orange) ARMED (orange) DISARMED (orange)</td>
</tr>
<tr>
<td>Chassis</td>
<td>Material: PS 90x90x45mm Weight ca. 120g Color: White, Carbon Black</td>
<td>Material: PS 90x90x45mm Weight ca. 100g Color: White, Carbon Black</td>
<td>Material: PS 130x90x45mm Weight ca. 300g Color: White, Carbon Black</td>
<td>Material: PS 13x50x14mm Weight ca. 100g Color: White</td>
</tr>
<tr>
<td>Radio</td>
<td>ZigBee 2.4GHz ISM Band +3dBm output power IEEE802.15.4</td>
<td>–</td>
<td>ZigBee® 2,4GHz ISM Band +3dBm output power IEEE802.15.4</td>
<td>ZigBee® 2,4GHz ISM Band +3dBm output power IEEE802.15.4</td>
</tr>
<tr>
<td>LAN</td>
<td>10/100Mbit integrated web server</td>
<td>–</td>
<td>10/100Mbit integrated web server (PRO)</td>
<td>–</td>
</tr>
<tr>
<td>GSM</td>
<td>–</td>
<td>–</td>
<td>Quad Band (GSM/GPRS) 850/900/1800/1900MHz</td>
<td>–</td>
</tr>
<tr>
<td>Power supply</td>
<td>9-72VAC/DC, PoE power consumption appr. 1W PoE class 1</td>
<td>9-72VAC/DC, PoE power consumption appr. 0,5 W</td>
<td>10-32VAC/DC power consumption appr. 3W (BASIC), 4W (PRO)</td>
<td>Battery or external 10-32VAC/DC, power consumption appr. 0.1W</td>
</tr>
<tr>
<td>UPS Power supply</td>
<td>ca. 4 minutes</td>
<td>ca. 4 minutes</td>
<td>ca. 3 minutes</td>
<td>–</td>
</tr>
<tr>
<td>Types</td>
<td>KMS-LAN-B/W B = Chassis Carbon/Black W = Chassis White</td>
<td>KMS-RF-B/W B = Chassis Carbon/Black W = Chassis White</td>
<td>KAM B = Chassis Carbon/Black W = Chassis White</td>
<td>KKP KKP-LEGIC KKP-MIFARE</td>
</tr>
<tr>
<td>Content of Delivery</td>
<td>Modular cable 5m Mounting Bracket</td>
<td>Mounting Bracket</td>
<td>Power Supply Antenna, Software, PowerAdap- ter, Mounting material</td>
<td>Battery 3 pc. RFID Token (RFID)</td>
</tr>
</tbody>
</table>
All components at a glance:

**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.

**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.
Select a system:

**MultiSensor-LAN** – from 475,00 Euro

- Temperature
- Luftfeuchte
- Taupunkt
- Brand
- Bewegung
- Ext. In / Out
- Leckage (opt.)

- ✓ LAN
- □ wireless
- □ GSM
- ✓ E-Mail
- □ SMS
- ✓ rack
- □ server room
- □ rooms > 20sqm
- □ 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
- ✓ Rack
- ✓ Server room
- ✓ KeyPad
- ✓ Rooms > 20 sqm

**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
- ✓ Rack
- ✓ Server room
- ✓ KeyPad
- ✓ Rooms > 20 sqm

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**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
\[\text{KENTIX}\]
\[\text{System +Partner}\]

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