SMART MONITORING

KENTIX
Innovative Security

User manual

Safety Instructions
- No modifications of any kind to Kentix GmbH products, other than those described in the relevant instructions, are permitted.
- To avoid malfunction, use only original parts and original accessories.
- Only operate the products within the defined temperature range.
- The products must not be brought into contact with paint or acids.
- The instructions should be passed on to the user by the person carrying out the installation.
- Kentix accepts no liability for damage to the equipment or components caused by incorrect installation.
- No liability is accepted for incorrectly programmed units. Kentix will not be liable for faults, damage to property or other damage.

Safety instructions for battery operated products
- Do not use products in potentially explosive areas.
- Only operate the products in the defined temperature range.
- Installation and battery replacement may only be carried out by trained personnel in accordance with the instructions.
- Do not charge, short circuit, open or heat batteries.
- When inserting the batteries, ensure that the polarity is correct.
- The devices must always be operated with the batteries intended for the product.
- When changing the batteries, all batteries must always be replaced.
- Old or used batteries must be disposed of properly.
- Keep batteries out of the reach of children.

Use of the products, transport, storage
- Installation and commissioning may only be carried out by trained specialists in accordance with the instructions.
- Kentix does not accept any liability for damage to the device or components due to incorrect installation.
- Protect the device from moisture, dirt and damage during transport, storage and operation
- You can find further information online at docs.kentix.com

Disposal
- Kentix would like to point out that Kentix appliances must be collected separately from unsorted municipal waste in accordance with ElektroG.
- Used batteries must be removed from the old appliance before it is taken to a collection point and disposed of separately. Collection points for old electrical appliances are available for return. The addresses can be obtained from the respective city or local authority.
- If the device to be disposed of contains personal data, the user himself is responsible for deleting it.

CE Declaration of Conformity
Kentix GmbH hereby declares that the equipment is in compliance with the essential requirements and relevant provisions of Directives 2014/53/EU and 2011/65/EU.
You can request the long version of the CE declaration of conformity from info@kentix.com.

Kentix GmbH
Carl-Benz-Straße 9
55743 Idar-Oberstein
kentix.com

Version: 08/2021

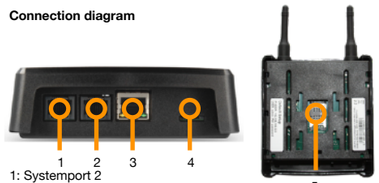
Further documentation at
docs.kentix.com

AlarmManager-BASIC/PRO

[ART: KAM-BASIC-W, KAM-BASIC-B, KAM-PRO-W, KAM-PRO-B]

Appropriate use
The AlarmManager is intended for monitoring rooms within buildings that are to be monitored for physical hazards. When installing the AlarmManager, certain degrees of protection must be guaranteed. Please observe the relevant regulations for installations in the respective environment. The installation must only be carried out by a competent person.

Connection diagram



1: Systemport 2
2: Systemport 1
3: LAN (PoE)
4: SD-Card
5: SIM-Card

Connect
Connect the device with a patch cable to a PoE-capable switch or with a PoE injector to a switch without PoE.
A class 3 PoE switch is required for operation. The device is maintenance-free. Alarm signalling by connected external systems must be checked as part of annual maintenance. For setup and calibration information, please visit docs.kentix.com.

Commissioning
After connecting, the device can be accessed via a browser using the following data:
IP address: 192.168.100.222 User name: admin, password: password

Accessories (included in delivery)
mounting bracket, mounting material, patch cable, GSM antenna, ZigBee radio antenna

Technical information
Power supply via PoE:
12-72VAC/DC Power consumption approx. 5W, PoE class 3
Environmental conditions:
temperature 0 - 50°C, humidity 5-95%, non-condensing
Integrated modem:
Quad-Band (GSM/3G/LTE) 850/900/1800/1900MHz; integrated SIM card holder
ZigBee radio:
ZigBee® 2.4GHz ISM Band +3dBm output power. IEEE802.15.4, encryption AES 128 bit

MultiSensor-RF

[ART: KMS-RF-B, KMS-RF-W]

Appropriate use
The MultiSensor-RF is intended for monitoring rooms within buildings that are to be monitored for physical hazards. When installing the MultiSensor, certain degrees of protection must be guaranteed.
Please observe the relevant regulations for installations in the respective environment. The installation must only be carried out by a competent person.

Connection diagram

1: Systemport

Connect
Connect the device to a power outlet in the room using the supplied KIO2 adapter and AC adapter. The device is maintenance-free. Alarm signalling by connected external systems must be checked as part of annual maintenance.

Commissioning
To connect to a Kentix AlarmManager or a MultiSensor-LAN-RF you have to start the search for Kentix devices via the web interface of the AlarmManager and then press the teach-in button on the device. For further information about the setup, please refer to docs.kentix.com.

Accessories (included in delivery)
Mounting bracket, fixing material, KIO2-Power adapter incl. 24V power supply, patch cable

Technical information
Power supply via external plug-in power supply unit:
12-24DC Power consumption approx. 1.5W via system socket
Environmental conditions:
Temperature 0 - 50°C, humidity 5-95%, non-condensing
ZigBee radio:
ZigBee® 2.4GHz ISM Band +3dBm output power. IEEE802.15.4, encryption AES 128 bit

MultiSensor-LAN

[ART: KMS-LAN-B, KMS-LAN-W]

Appropriate use
The MultiSensor-LAN is intended for monitoring rooms within buildings that are to be monitored for physical hazards. When installing the MultiSensor, certain degrees of protection must be guaranteed.
Please observe the relevant regulations for installations in the respective environment. The installation must only be carried out by a competent person.

Connection diagram

1: Systemport
2: LAN (PoE)
3: SD-Card

Connect
Connect the device with a patch cable to a PoE-capable switch or with a PoE injector to a switch without PoE.
A class 1 PoE switch is sufficient for operation. The device is maintenance-free. For setup and calibration information, please visit docs.kentix.com.

Commissioning
After connecting, the device can be accessed via a browser using the following data:
IP address: 192.168.100.223
User name: admin, password: password

Accessories (included in delivery)
Mounting bracket, fixing material, patch cable

Technical information
Power supply via PoE:
12-72VAC/DC Power consumption approx. 1.5W, PoE class 1
Environmental conditions:
temperature 0 - 50°C, humidity 5-95%, non-condensing

MultiSensor-LAN-RF

[ART: KMS-LAN-RF-B, KMS-LAN-RF-W]

Appropriate use
The MultiSensor-LAN-RF is intended for monitoring rooms within buildings that are to be monitored for physical hazards.
The integrated wireless gateway is used to connect further Kentix ZigBee devices.
When installing the MultiSensor, certain degrees of protection must be guaranteed.
Please observe the relevant regulations for installations in the respective environment. The installation must only be carried out by a competent person.

Connection diagram

1: Systemport
2: LAN (PoE)
3: SD-Card

Connect
Connect the device with a patch cable to a PoE-capable switch or with a PoE injector to a switch without PoE.
A class 1 PoE switch is sufficient for operation. The device is maintenance-free. Alarm signalling by connected external systems must be checked as part of annual maintenance. For setup and calibration information, please visit docs.kentix.com.

Commissioning
After connecting, the device can be accessed via a browser using the following data:
IP address: 192.168.100.223
User name: admin, password: password

Accessories (included in delivery)
mounting bracket, fixing material, 1x Li-battery 3,6V/1.200mAh

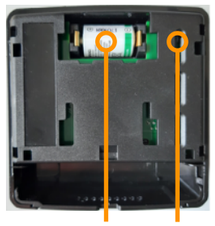
Technical data
Power supply via PoE:
12-72VAC/DC Power consumption approx. 1.5W, PoE class 1
Environmental conditions:
temperature 0 - 50°C, humidity 5-95%, non-condensing
ZigBee radio:
ZigBee® 2.4GHz ISM Band +3dBm output power. IEEE802.15.4, encryption AES 128 bit

MultiSensor-RF-BAT

[ART: KMS-RF-BAT-B, KMS-RF-BAT-W]

Appropriate use
The MultiSensor-RF-BAT is intended for monitoring rooms within buildings that are to be monitored for physical hazards. When installing the MultiSensor, certain degrees of protection must be guaranteed.
Observe the relevant regulations for installations in the respective environment. The installation must only be carried out by a competent person.

Connection diagram



1: Battery (3,6V Lithium, 1/2 AA)
2: Teach-In button

Commissioning
Remove the mounting bracket on the back of the housing and insert the supplied battery (observe polarity). To connect to a Kentix AlarmManager or a MultiSensor-LAN-RF, start the search for Kentix devices via the web interface of the AlarmManager and then press the teach-in button on the MultiSensor-RF-BAT.
The battery life is about 2 years. Information on setup and calibration can be found at docs.kentix.com

Notice
The sensor does not operate as a ZigBee® repeater. No other devices can be connected to it by radio. MultiSensor-RF or MultiSensor-LAN-RF serve as repeaters.
The sensor has no system socket. It is therefore not possible to connect external sensors such as leakage or dust sensors. These connection options are available with the following MultiSensors: MultiSensor-LAN and MultiSensor-LAN-RF.

Accessories (included in delivery)
mounting bracket, fixing material, 1x Li-battery 3,6V/1.200mAh

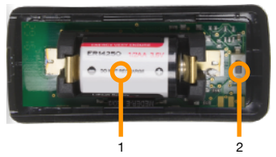
Technical data
Power supply:
Lithium ion battery, 1/2 AA 3.6V
Environmental conditions:
Temperature 0 - 45°C, humidity 5-95%, non-condensing
ZigBee radio:
ZigBee® 2.4GHz ISM Band +3dBm output power. IEEE802.15.4, encryption AES 128 bit

MultiSensor-Door

[ART: KMS-DOOR-B, KMS-DOOR-W]

Appropriate use
The MultiSensor-Door is intended for monitoring doors or windows inside buildings that are to be monitored for physical dangers (burglary, sabotage). When installing the MultiSensor, certain degrees of protection must be guaranteed.
Please observe the relevant regulations for installations in the respective environment. The installation must only be carried out by a competent person.

Connection diagram



1: Battery (3,6V Lithium, 1/2 AA)
2: Teach-In button

Commissioning
Remove the mounting bracket on the back of the housing and insert the supplied battery (observe polarity). To connect to a Kentix AlarmManager or a MultiSensor-LAN-RF, start the search for Kentix devices via the web interface of the AlarmManager and then press the teach-in button on the MultiSensor-Door.
The battery life is approximately 2 years. Information on setup and calibration is available at docs.kentix.com.

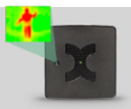
Notice
The sensor does not operate as a ZigBee® repeater. No other devices can be connected to it by radio. MultiSensor-RF or MultiSensor-LAN-RF serve as repeaters.

Accessories (included in delivery)
mounting bracket, door contact, 1x Li-battery 3,6V/1.200mAh

Technical data
Power supply:
Lithium ion battery, 1/2 AA 3.6V
Environmental conditions:
Temperature 0 - 45°C, humidity 5-95%, non-condensing
ZigBee radio:
ZigBee® 2.4GHz ISM Band +3dBm output power. IEEE802.15.4, encryption AES 128 bit

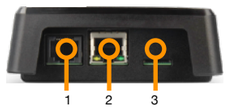
MultiSensor-TI

[ART: KMS-TI-90-B, KMS-TI-90-W, KMS-TI-40-B, KMS-TI-40-W]



Appropriate use
The MultiSensor-TI is intended for monitoring rooms within buildings that are to be monitored for physical hazards. When installing the MultiSensor, certain degrees of protection must be guaranteed.
Please observe the relevant regulations for installations in the respective environment. The installation must only be carried out by a competent person.

Connection diagram



1: Systemport
2: LAN (PoE)
3: SD-Card

Connect
Connect the device with a patch cable to a PoE-capable switch or with a PoE injector to a switch without PoE.
A class 1 PoE switch is sufficient for operation. The device is maintenance-free. For setup and calibration information, please visit docs.kentix.com.

Commissioning
After connecting, the device can be accessed via a browser using the following data:
IP address: 192.168.100.223
User name: admin, password: password

Accessories (included in delivery)
Mounting bracket, fixing material, patch cable

Technical data
Power supply via PoE:
12-72VAC/DC Power consumption approx. 1.5W, PoE class 1
Environmental conditions:
temperature 0 - 50°C, humidity 5-95%, non-condensing

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- No liability is accepted for incorrectly programmed units. Kentix will not be liable for faults, damage to property or other damage.
- Do not use products in potentially explosive atmospheres.

Use of the products, transport, storage
- Installation and commissioning may only be carried out by trained specialists in accordance with the instructions.
- Kentix does not accept any liability for damage to the device or components due to incorrect installation.
- Protect the device from moisture, dirt and damage during transport, storage and operation
- You can find further information online at docs.kentix.com

Disposal
- Kentix would like to point out that Kentix appliances must be collected separately from unsorted municipal waste in accordance with the ElektroG.
- Collection points for old electrical appliances are available for return. The addresses can be obtained from the respective city or local authority.
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55743 Idar-Oberstein
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Version: 08/2021

Further documentation at
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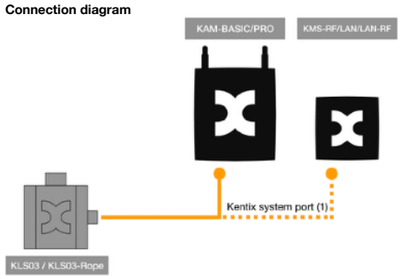
Leckagesensor
[ART: KLS03]

Appropriate use
The leakage sensor is intended for monitoring water ingress and leakage within buildings.
Certain degrees of protection must be ensured when installing the leakage sensor. Please observe the relevant regulations for installations in the respective environment.
The installation must only be carried out by a competent person.

Connection diagram



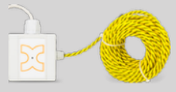
Connect
Connect the leakage sensor to an AlarmManager or MultiSensor with the patch cable. Power is supplied directly via the same connection.

Commissioning and maintenance
Commissioning is carried out via the configuration of the AlarmManager or MultiSensor.
Information on the setup can be found at docs.kentix.com.
The device must be checked for functionality as part of an annual maintenance.

Accessories (included in delivery)
Housing screw connection for cascading (for linking several leakage sensors)

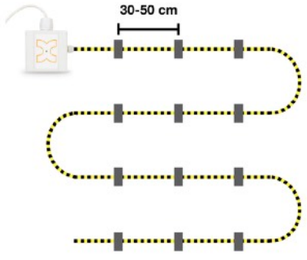
Technical data
Power supply:
via Kentix system socket
Environmental conditions:
Temperature -25 - 70°C, air humidity max. 85%, non-condensing

Leckagesensor Rope
[ART:KLS03-ROPE-10,
KLS03-ROPE-20]



Appropriate use
The leakage sensor Rope is designed for monitoring water ingress and leakage within buildings. The connected Rope extends the detection range up to 20m.
When installing the leakage sensor, certain degrees of protection must be guaranteed. Please observe the relevant regulations for installations in the respective environment.
The installation must only be carried out by a competent person.

Connection diagram / Laying the sensor cable



Connect
The rope of the leak sensor Rope must be fixed to the ground. We recommend using the enclosed plastic dowel clamps for a hole of 6mm. The distance between the individual clamps should be between 30cm and 50cm. If it is not possible to drill a hole for the dowel clamps, the sensor cable can also be fixed with strips of high-quality adhesive tape. At the same distances as the dowel fastening. It is important for both types of fastening that the sensor cable rests on the floor over its entire length.

Commissioning and maintenance
Commissioning is carried out via the configuration of the AlarmManager or MultiSensor.
Information on the setup can be found at docs.kentix.com.
The device must be checked for functionality as part of an annual maintenance.

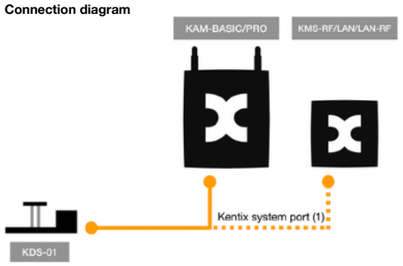
Accessories (included in delivery)
Housing screw connection for cascading (for linking several leakage sensors), dowel clamp for Rope

Technical data
Power supply:
via Kentix system socket
Environmental conditions:
Temperature -25 - 70°C, air humidity max. 85%, non-condensing

Dustsensor
[ART: KDS01]

Appropriate use
The dust sensor is designed to detect dust or dirt in data centres, IT racks or distribution boards.
When installing the Dustsensor, certain degrees of protection must be guaranteed. Please observe the relevant regulations for installations in the respective environment. The installation must only be carried out by a competent person.

Connection diagram



Connect
Connect the dust sensor to an AlarmManager or MultiSensor with a patch cable. Power is supplied directly from the same connection.

Commissioning and maintenance
Commissioning is carried out via the configuration of the AlarmManager or MultiSensor.
Information on the setup can be found at docs.kentix.com.
The device must be checked for functionality as part of an annual maintenance.

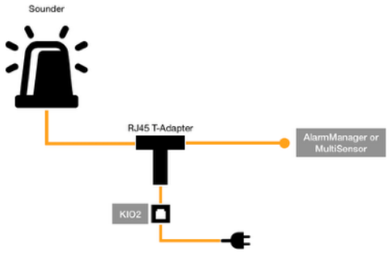
Accessories (included in delivery)
Patchcable

Technical data
Power supply:
via Kentix system socket
Environmental conditions:
Temperature 0 - 60°C

Alarm siren
[ART: KFLASH1]

Appropriate use
The alarm siren serves as a combined signal generator (siren + flashlight) indoors or outdoors and thus as a warning signal for critical conditions (burglary alarm).
When installing the alarm siren, certain degrees of protection must be guaranteed. Please observe the relevant regulations for installations in the respective environment.
The installation must only be carried out by a competent person.

Connection diagram



Commissioning
Connect the siren to one of the connections on the RJ45 T-adapter. In addition, connect the supplied KIO2 power adapter to the RJ45 T-adapter and connect the plug-in power supply unit to it. Connect the RJ45-T adapter to an AlarmManager or MultiSensor (system socket). For information on setup, please refer to docs.kentix.com.

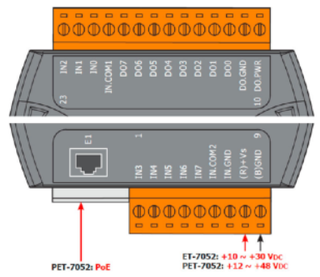
Accessories (included in delivery)
RJ45 T-adapter, KIO2 power adapter incl. 24V plug-in power supply unit, patch cable

Technical data
Power supply:
via supplied 24V plug-in power supply unit
Environmental conditions:
temperature -10 - 55°C, humidity 5-95%, non-condensing

I/O expansion module
[ART: KIO7052]

Approp
The digi 1: Teach-In button monitoring external
compor 2: Battery (3,6V Lithium, 1/2 AA) systems, magnetic
contacts) within buildings.
Certain degrees of protection must be ensured when installing the device. Please observe the relevant regulations for installations in the respective environment.
The installation must only be carried out by a competent person.

Connection diagram



Connect
Connect the device with a patch cable to a PoE-capable switch or with a PoE injector to a switch without PoE.
A class 1 PoE switch is sufficient for operation. The device is maintenance-free. Alarm signalling by connected external systems must be checked as part of annual maintenance. For information on setup, please refer to docs.kentix.com.

Commissioning
After connecting, the device can be accessed via a browser using the following data:
IP address: 192.168.255.1
User name: Admin, password: Admin

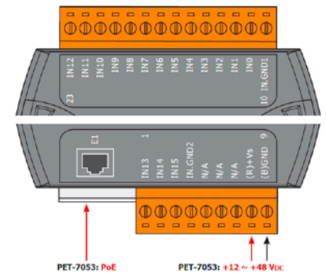
Accessories (included in delivery)
Mounting bracket, fixing material, patch cable

Technical data
Power supply via PoE:
12-72VAC/DC Power consumption approx. 3.0W, PoE class 1
Environmental conditions:
temperature -25 - 75°C, humidity 10 - 90%, non-condensing

I/O expansion module
[ART: KIO7053]

Appropriate use
The digital I/O expansion module is intended for monitoring external components (e.g. air conditioning systems, UPS systems, magnetic contacts) within buildings.
Certain degrees of protection must be ensured when installing the device. Please observe the relevant regulations for installations in the respective environment.
The installation must only be carried out by a competent person.

Connection diagram



Connect
Connect the device with a patch cable to a PoE-capable switch or with a PoE injector to a switch without PoE.
A class 1 PoE switch is sufficient for operation. The device is maintenance-free. Alarm signalling by connected external systems must be checked as part of annual maintenance. Information on setup is available at docs.kentix.com.

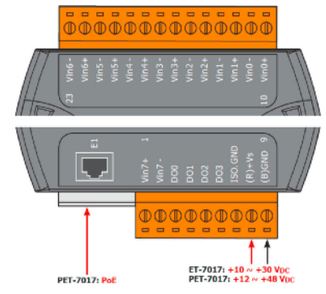
Commissioning
After connecting, the device can be accessed via a browser using the following data:
IP address: 192.168.255.1
User name: Admin, password: Admin
Accessories (included in delivery)
Mounting bracket, fixing material, patch cable

Technical data
Power supply via PoE:
12-72VAC/DC Power consumption approx. 3.0W, PoE class 1
Environmental conditions:
temperature -25 - 75°C, humidity 10 - 90%, non-condensing

I/O expansion module
[ART: KIO7017]

Appropriate use
The digital I/O expansion module is designed for monitoring external analog sensors (e.g. temperature, humidity, oxygen) inside and outside buildings.
When installing the device, certain degrees of protection must be ensured. Please observe the relevant regulations for installations in the respective environment.
The installation must only be carried out by a competent person.

Connection diagram



Connect
Connect the device with a patch cable to a PoE-capable switch or with a PoE injector to a switch without PoE.
A class 1 PoE switch is sufficient for operation. The device is maintenance-free. The measurement(s) by connected sensors must be checked as part of annual maintenance. Information on setup can be found at docs.kentix.com.

Commissioning
After connecting, the device can be accessed via a browser using the following data:
IP address: 192.168.255.1
User name: Admin, password: Admin

Accessories (included in delivery)
Mounting bracket, fixing material, patch cable

Technical data
Power supply via PoE:
12-72VAC/DC Power consumption approx. 3.2W, PoE class 1
Environmental conditions:
temperature -25 - 75°C, humidity 10 - 90%, non-condensing