PowerManager – MANUAL



ORDER-CODES:
KPM-100

DATASHEET KPM-100

KentixONE Operating mode

SiteManager Operation	Stand-Alone Operation

Further information on the operating mode

Overview

The Kentix PowerManager is the management unit for Kentix SmartPDU components and

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energy consumption meters with an RS-485 interface. The PowerManager is network-compatible and is supplied with voltage via Power over Ethernet (PoE).

The PowerManager can be operated as the main device (operating mode: Main Device) or in a network (operating mode: Satellite Device) with other PowerManagers. The KentixONE software is already integrated via the integrated web server (HTTPS). The configuration is done via web browser and depending on the operating mode (operating mode: Main Device) locally on the PowerManager itself or on a central instance like the SiteManager or AlarmManager (operating mode: Satellite Device).

The PowerManager can be mounted on a standard DIN rail or alternatively in a 60mm switch box.

The PowerManager is the central component of the solution. Here the SmartMeter or ModBus meters are connected via RS485 or LAN. The PowerManager is connected to the network via a PoE-capable switch.

Safety instructions

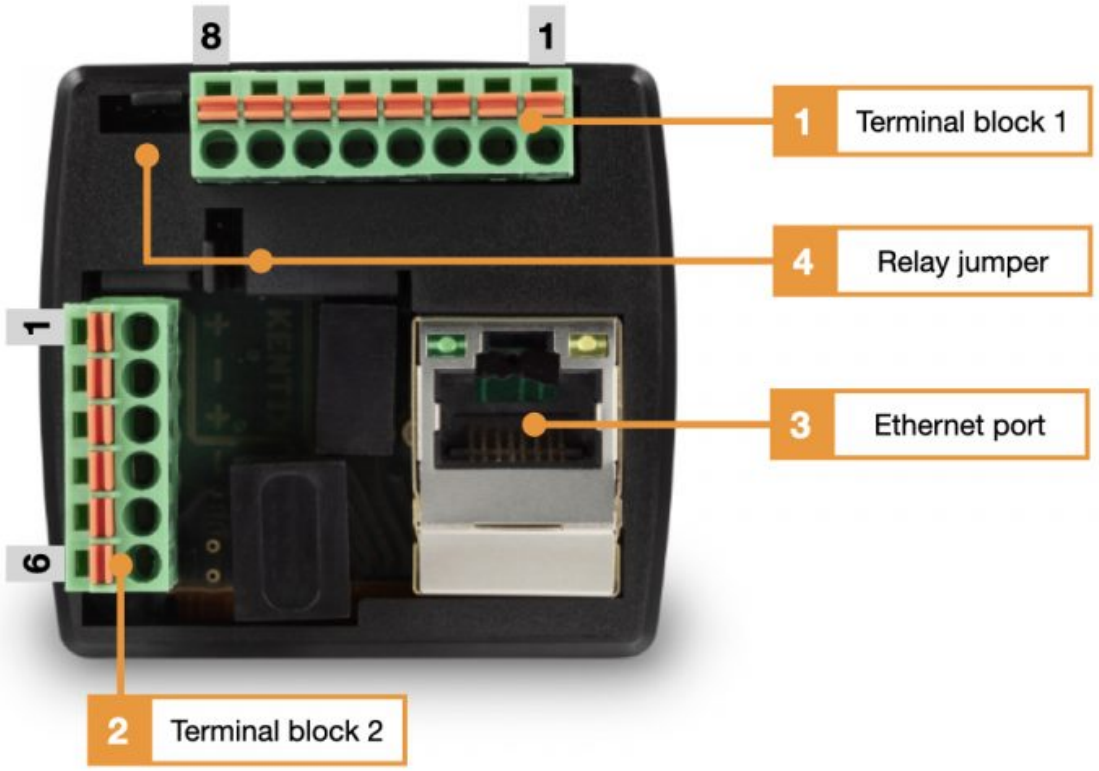
Installation
Installation and commissioning may only be carried out by trained specialist personnel in accordance with the instructions.
No modifications of any kind may be made to Kentix GmbH products, with the exception of those described in the relevant instructions.
When installing Kentix devices, certain degrees of protection must be guaranteed.
Observe the relevant regulations for installations in the respective environment.
Only operate the products within the defined temperature range.
The instructions should be passed on to the user by the person carrying out the installation.
Kentix accepts no liability for damage to the devices or components caused by incorrect installation. Kentix accepts no liability for incorrectly programmed units.
Kentix accepts no liability for faults, material damage or other damage.
Use of the products, transport and storage
Protect the device from
moisture, dirt and damage during transportation, storage and operation.
Battery powered products
Do not use the products in potentially explosive atmospheres.
Only operate the products within the defined temperature range.
Installation and battery replacement may only be carried out by trained specialist personnel in accordance with the instructions.
Do not charge, short-circuit, open or heat batteries.
Observe the correct polarity when inserting the batteries.
The devices must always be operated with the batteries intended for the product.
When changing the batteries, always replace all batteries.
Dispose of old or used batteries properly.
Keep batteries out of the reach of children.
Maintenance

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Kentix devices must be checked for functionality as part of annual maintenance.
Disposal
Electrical appliances and batteries must be disposed of separately from household waste.

Controls

Connection and operating elements



PowerManager front view

1. Terminal block 1 (terminal 1-8, IO terminal with relay 1+2, digital input 1+2)
2. Terminal block 2 (terminal 1-6, BUS-POWER-OUT terminal)
3. Ethernet port with PoE power supply, Class 3 (12.95W)
4. Jumper for switching the logic for relay output 1+2 (NC, NO)

ATTENTION! **Terminals 1-4** on **terminal block 2** supply a voltage of 24VDC (integrated PoE splitter) and are not intended for powering the module. Applying an external power supply may destroy the module. The power supply of the AcessManager is exclusively via PoE.

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Terminal block 1	Function connection
1	Digital input DI 1 (For potential-free wiring, e.g. door contact)
2	Digital input DI 1 (For potential-free wiring)
3	Digital input DI 2 (For potential-free wiring)
4	Digital input DI 2 (For potential-free wiring)
5	Relay 2 NO/NC (Default=NO)
6	Relay 2 COM (relay power max. 60VDC/1A)
7	Relay 1 NO/NC (Default=NO)
8	Relay 1 COM (relay power max. 60VDC/1A)

Terminal block 2	Function connection
1	(+) 24VDC (power supply door opener, max. 0.5A)
2	(-) GND (power supply door opener, max. 0.5A)
3	(+) 24VDC (power supply RFID reader)
4	(-) GND (power supply RFID reader)
5	BUS-B (communication line to RFID reader)
6	BUS-A (communication line to RFID reader)

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Side view

Factory settings

For initial configuration, use the IP address printed on the device or the address assigned via DHCP in a web browser (HTTPS). Please note the network settings of your connected PC.

The factory IP addresses at a glance:

SiteManager and AlarmManager	192.168.100.222
MultiSensor	192.168.100.223
AccessManager	192.168.100.224

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PowerManager	192.168.100.225
SmartPDU	192.168.100.226
Leakage sensor	192.168.100.227

Factory IP addresses, subnet mask: 255.255.255.0

For devices with a firmware version lower than 8.6.0, the login credentials for the default administrator account are: admin / password
For devices with firmware version 8.6.0 or higher, the login credentials for the default administrator account are: admin/Password1!

Reset to factory settings

1. Restart the device (disconnect and reconnect the power supply).
2. The status LED lights up briefly and then goes out.
3. As soon as the status LED lights up green continuously, press and hold the reset button for 15 seconds until the device emits an acoustic feedback.
4. The device loads the factory settings and performs a restart.
5. After approx. 2 minutes, the device can be reached with the factory settings.

All existing settings and data will be irrevocably deleted!
We recommend regular system backups.

Configuration with KentixONE

The device is configured via the web browser in KentixONE. The device must be accessible to the central KentixONE instance on the network side. Depending on the device type, a communication key and the IP address or DHCP name of the central KentixONE instance must also be set on the device (MultiSensors, AccessManager, SmartPDU). IP cameras or IO modules, on the other hand, can be integrated directly into KentixONE.

All information about the software can be found in the KentixONE section and the associated documentation.

Before starting the configuration, make sure that the software on all network-compatible Kentix devices is up-to-date. The version status must match on all devices.
You can perform a software update for your KentixONE main instance and all connected satellites at any time via “System – Update”.

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