

# 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 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, other than those described in an appropriate manual, are permitted to Kentix GmbH products.

Certain levels of protection must be provided when installing Kentix equipment.

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 equipment or components resulting from incorrect installation. No liability is accepted for incorrectly programmed units.

Kentix shall not be liable in the event of malfunctions, damage to property or other damage.

### Use of the products, transport and storage

Protect the device during transport, storage and operation from

Protect moisture, dirt and damage.

### Battery powered products

Do not use 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 personnel in accordance with the instructions.

Do not charge, short circuit, open or heat batteries.

When inserting the batteries, pay attention to the correct polarity.

The devices must always be operated with the batteries intended for the product.

When changing batteries, always replace all batteries.

Dispose of old or used batteries properly.

Keep batteries out of the reach of children.

Maintenance

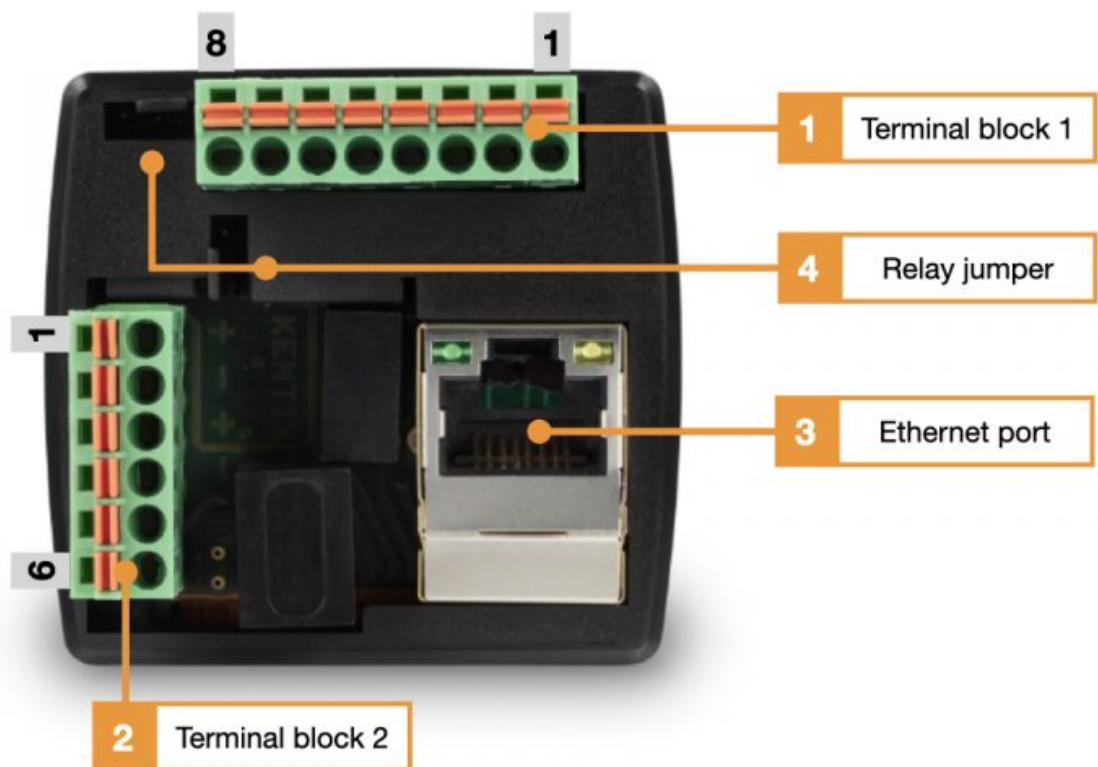
Kentix devices must be checked for functionality as part of annual maintenance.

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 AccessManager is exclusively via PoE.

<b>Terminal block 1</b>	<b>Function connection</b>
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)

<b>Terminal block 2</b>	<b>Function connection</b>
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)



Bottom side with RESET button, SD card slot

## 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:

<b>SiteManager and AlarmManager</b>	192.168.100.222
<b>MultiSensor</b>	192.168.100.223
<b>AccessManager</b>	192.168.100.224
<b>PowerManager</b>	192.168.100.225
<b>SmartPDU</b>	192.168.100.226

Factory IP addresses, subnet mask: 255.255.255.0

For devices with a firmware version lower than 8.x.x, the login data for the preset administrator account are: admin / password

## 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 backup of the system.**

## Configuration with KentixONE

The configuration is done via web browser (HTTPS) using the already integrated KentixONE software. Depending on the operating mode (Main or Satellite) of the device, the configuration takes place on the device itself (operating mode: Main), or on a central instance such as the SiteManager or AlarmManager (operating mode: Satellite).

All information about the software is available in the [KentixONE](#) section and the related documentation.

Before you start the configuration, make sure that the software is up to date on all network-enabled Kentix devices. The version status must be the same on all devices.

**You can download the latest software here: [KentixONE](#)**