

# Expansion module (Ethernet) - MANUAL



## ORDER-CODES:

[KIO7053](#), [KIO7052](#), [KIO7060](#), [KIO7017](#)

[DATASHEET KI07017](#),  
[DATASHEET KI07052](#),  
[DATASHEET KI07053](#),  
[DATASHEET KI07060](#),  
[Quick Start Manual](#)

## Overview

The expansion module (Ethernet) integrates a variety of inputs and outputs in one compact device. The expansion module is used to connect external alarm messages to KentixONE. The module is network-compatible and is powered either via Power over Ethernet (PoE) or an external power supply (12-30VDC, 4.5W).

The configuration of the network settings of the expansion module is done via the web browser. The configuration of the alarm and display logic takes place on the Main Device.

## 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.

## Variants

There are 3 expansion modules (Ethernet) available, which differ in the number of inputs and outputs. The differences are shown in the following table:

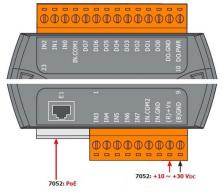
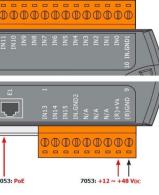
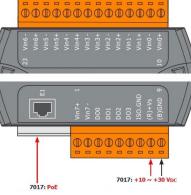
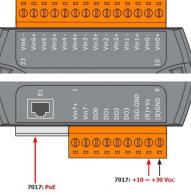
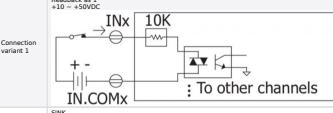
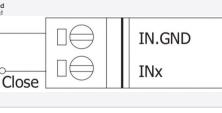
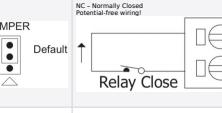
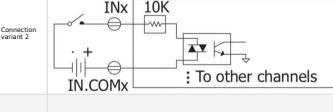
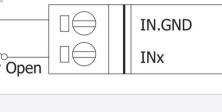
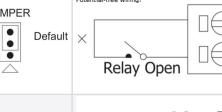
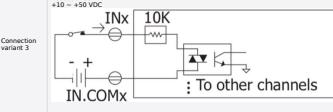
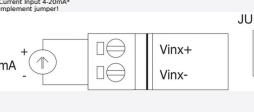
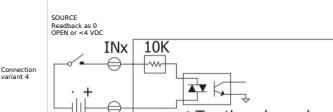
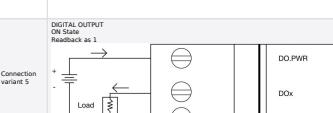
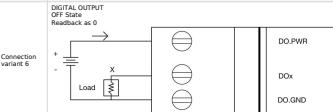
Model	KIO7052	KIO7053	KIO7017	KIO7060
				
7052i PoE	7053i PoE	7017i PoE	7017i PoE	7017i PoE
7052i +10 ~ +30 Vdc	7053i +12 ~ +48 Vdc	7017i +10 ~ +30 Vdc		7017i +10 ~ +30 Vdc
Digital inputs 8	16	-	6	
Digital outputs 8	-	4	-	
Analog inputs -	-	8	-	
Relay outputs -	-	-	6	
Protocol Modbus TCP				
IP Port 502 TCP				
Configuration network Web Server HTTP, Port 80 Default (IP: 192.168.255.1 (Admin/Admin))				
Configuration KentixONE Configuration is done completely via KentixONE. Only IP settings on IO module necessary.				
KentixONE Power supply Power supply (2x) or external 12-30VDC.				
Mounting DIN rail, stackable				
Connection variant 1	<p>SINK</p> <p>Feedback as 1 +10 ~ +30VDC</p>  <p>INx 10K IN.COMx</p> <p>Relay Close</p> <p>IN.GND INx</p> <p>NC - Normally Closed Potential-free wiring!</p>	<p>Voltage Input Differential Default 0-10V</p>  <p>JUMPER Default</p> <p>mV/V + V Vinx+ Vinx-</p> <p>IN.GND INx</p>	<p>NC - Normally Closed Potential-free wiring!</p>  <p>Relay Close</p> <p>IN.GND INx</p>	
Connection variant 2	<p>SOURCE</p> <p>Feedback as 0 OPEN or +4 VDC</p>  <p>INx 10K IN.COMx</p> <p>Relay Open</p> <p>IN.GND INx</p> <p>NO - Normally Opened Potential-free wiring!</p>	<p>Voltage Input Single Ended Default 0-10V</p>  <p>JUMPER Default</p> <p>mV/V + V Vinx+ AGND</p> <p>IN.GND INx</p>	<p>NO - Normally Opened Potential-free wiring!</p>  <p>Relay Open</p> <p>IN.GND INx</p>	
Connection variant 3	<p>SOURCE</p> <p>Feedback as 1 +10 ~ +30 VDC</p>  <p>INx 10K IN.COMx</p> <p>Relay Close</p> <p>RLx.COM</p> <p>RLx.NO</p>		<p>Current Input 4-20mA* Implement jumper!</p>  <p>JUMPER</p> <p>mA + Vinx+ Vinx-</p>	<p>RLx.COM</p> <p>Relay Close</p> <p>AC/DC LOAD RLx.NO</p> <p>To other channels</p>
Connection variant 4	<p>SOURCE</p> <p>Feedback as 0 OPEN or +4 VDC</p>  <p>INx 10K IN.COMx</p> <p>Relay Open</p> <p>RLx.COM</p> <p>RLx.NO</p>			
Connection variant 5	<p>DIGITAL OUTPUT ON State</p> <p>Feedback as 1</p>  <p>DO.PWR DOx DO.GND</p>			
Connection variant 6	<p>DIGITAL OUTPUT OFF State</p> <p>Feedback as 0</p>  <p>DO.PWR DOx DO.GND</p>			

Table KIO70xx

## Determination of the measuring range for KIO7017

To change from voltage measurement 0-10V (default) to current measurement 4-20mA the jumper inside the housing must be changed.

## Factory settings

<b>Default IP address</b>	192.168.255.1
<b>Subnet mask</b>	255.255.255.0
<b>User</b>	Admin
<b>Password</b>	Admin

## Commissioning

The modules can optionally be supplied with voltage via PoE or via an external power supply unit. When using a power supply unit, be sure to observe the information on the voltage supply in the [data sheet](#).

## 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”.**