Expansion module (Ethernet) – MANUAL

ORDER-CODES:

KIO7053, KIO7052, KIO7017

DATASHEET KIO7017,
DATASHEET KIO7052,
DATASHEET KIO7053,
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:
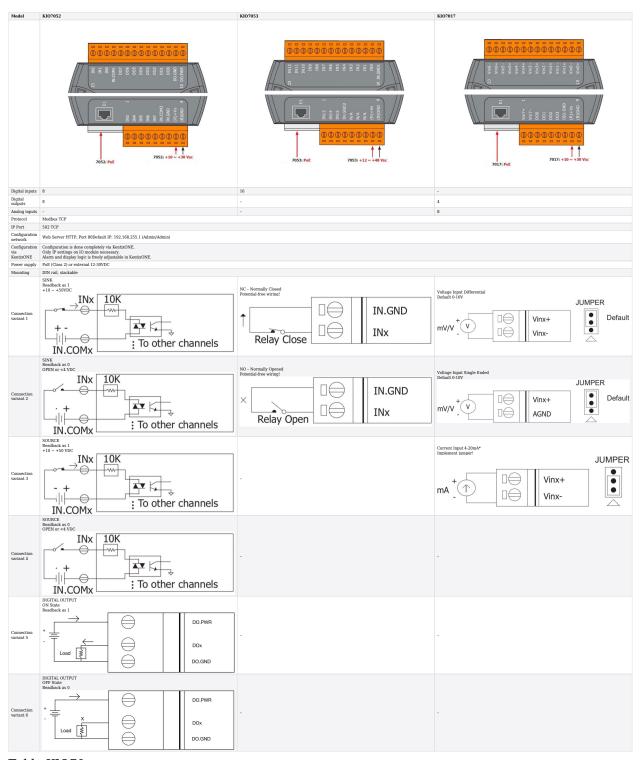
Model	KIO7052	KIO7053	KIO7017
	 7052: PoE 7052: +10 ~ +30 V$_{DC}$	 7053: PoE 7053: +12 ~ +48 V$_{DC}$	 7017: PoE 7017: +10 ~ +30 V$_{DC}$
Digital inputs	8	16	-
Digital outputs	8	-	4
Analog inputs	-	-	8
Protocol	Modbus TCP		
IP Port	502 TCP		
Configuration network	Web Server HTTP, Port 80 Default IP: 192.168.255.1 (Admin/Admin)		
Configuration via KentixONE	Configuration is done completely via KentixONE. Only IP settings on IO module necessary. Alarm and display logic is freely adjustable in KentixONE.		
Power supply	PoE (Class 2) or external 12-30VDC		
Mounting	DIN rail, stackable		
Connection variant 1	SINK Readback as 1 +10 – +50VDC 	NC – Normally Closed Potential-free wiring! 	Voltage Input Differential Default 0-10V
Connection variant 2	SINK Readback as 0 OPEN or <4 VDC 	NO – Normally Opened Potential-free wiring! 	Voltage Input Single Ended Default 0-10V
Connection variant 3	SOURCE Readback as 1 +10 – +50 VDC 	-	Current Input 4-20mA* Implement jumper!
Connection variant 4	SOURCE Readback as 0 OPEN or <4 VDC 	-	-
Connection variant 5	DIGITAL OUTPUT ON State Readback as 1 	-	-
Connection variant 6	DIGITAL OUTPUT OFF State Readback as 0 	-	-

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

Default IP address	192.168.255.1
Subnet mask	255.255.255.0
User	Admin
Password	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 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