





TNC-A1412

CONTROLLERS FOR DATA ACQUISITION AND FOR CONTROLLING FIELD MODULES

Controller for controlling actuators and for monitoring the damper blade position and duct smoke detectors

- Controller with TROXNETCOM Basic User Software
- . Easy and safe commissioning without programming
- Controller with master function for stand-alone operation .
- . System monitoring
- .
- Automatic detection of components and their status Menu-driven user interface (controller display) for system . configuration
- Peripheral equipment can be tested without additional auxiliary . equipment

General information

Application

- TROXNETCOM controllers with AS-i master interfaces manage the data traffic with AS-i field modules

- The controllers detect the devices on the bus, perform error diagnoses and report states
 The controllers regularly query the status of each AS-i field module and send control signals to the AS-i field modules
 Each controller can be used for up to 2 × 31 AS-i field modules
 The controllers can be connected to the touch display (communication master) via Ethernet or PROFIBUS DP
 Single controllers and touch displays with multiple controllers each represent independent systems. As an option, they can be used to transmit modered by the state of the state of the touch displays with multiple controllers each represent independent systems. As an option, they can be used to transmit modered by the state of the touch displays with multiple controllers each represent independent systems. As an option, they can be used to transmit modered by the state of the touch displays with multiple controllers each represent independent systems. As an option, they can be used to transmit modered by the state of the touch displays in the state of the touch displays to the touch displays the state of the touch displays with multiple controllers each represent independent systems. As an option, they can be used to transmit modered by the state of the touch displays the sta messages to a central BMS
- Each controller comes with the TROXNETCOM Basic User Software pre-installed and can be configured with a CSV file for a group of dampers. . There is usually no programming required.

Description

TNC-A1412 is used as a universal controller and is provided with 2 AS-i master interfaces that can be activated. Only one AS-i master interface is factory activated. It must be connected to an AS-i power supply unit. To activate the second AS-i master interface, another AS-i power supply unit is required. The controller can either be used as a stand-alone solution or to create a network with PROFIBUS DP or Ethernet.

AS-i controller TNC-A1412 with one or two master interfaces for 31 or 62 AS-i devices, respectively.
With TNC Basic User Software
Recognition of all devices on a bus

- For initialising the AS interface network

- Error diagnosis and signalling
 Colour display, also for operation
 PROFIBUS DP and Ethernet interfaces

Order code

TNC-A1412 for 1 or 2 AS-i master devices

TECHNICAL INFORMATION

Туре	TNC-A1412
Supply voltage	18 - 32 V DC (AUX) 21 - 31.6 V DC (AS-i)
Current consumption	< 500 mA
Programming interface	Ethernet RJ45; 10/100 MBd
Data interface	PROFIBUS DP (EN 50170); slave 12 MBd max.
Display	Full graphic LC colour display
Status LED	$1 \times \text{red/green}$ (combination LED)
Ambient temperature	0 to 60 °C
Storage temperature	-20 to 70 °C
MTTF	39 years
AS-i profile	M4
AS-i certificate	97302
Casing materials	Powder-coated aluminium, galvanised sheet steel, PC
Fixing	On DIN mounting rail
Weight	0.699 kg

Specification text

The AS-i controller TNC-A1412 is fitted with:

- AS-i master interface 1 (factory activated)
- AS-i master interface 2 (can be activated) .
- . Text and graphic display
- 6 push buttons
- SD card slot for system configuration
- Optional: Controller integration into a network, either PROFIBUS DP (slave) or Ethernet with Modbus TCP (slave/server)

The pre-installed TNC Basic User Software allows for:

- Configuring the controller integration (PROFIBUS DP/Ethernet Modbus TCP/no network)
- Activating the second AS-i master interface .
- Control of components as part of fire damper control Automatic detection of TROX modules and their functions . .
- Automatic grouping
- Optional system configuration with CSV file (SD card)
- Automatic functional test
- Manual control of dampers
- Integral display, also for operation
- Simple, menu-driven configuration and adjustment
- Supply voltage: 24 V DC
- Current consumption 24 V DC < 500 mA and AS-i < 10 mA .
- Casing materials: aluminium, galvanised sheet steel, PC Ambient temperature: 0 60 C° .
- .
- Protection level: IP 20
- Status display: LED 1 × red/yellow/green
 Manufacturer: TROX GmbH
 Type: TNC-A1412

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- With TNC Basic User Software
- Recognition of all devices on a bus •
- For initialising the AS interface network
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- Colour display, also for operation PROFIBUS DP and Ethernet interfaces