Air-TraXX

Specification Sheet

NEXIO

Edge Controller

Powered by FIN™ Framework

Warnings

The following instructions must be read and understood before installation, commissioning and maintenance of the controller.

ATTENTION!
YOUR SAFETY IS INVOLVED. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY CAUSE DANGER

The electronic device must be installed by qualified personnel in accordance with national regulations and/or related local requirements. If the electronic device is not installed, commissioned and maintained correctly according to the instructions contained in this manual, then it may not work properly and may endanger the user.

ATTENTION!
DISCONNECT POWER SUPPLY BEFORE PERFORMING INTERVENTIONS.
FAILURE TO OBSERVE THESE INDICATIONS MAY CAUSE INJURY TO PEOPLE OR DAMAGE TO PROPERTY

The following instructions must be read and understood before disposal of the device:

The crossed-out wheeled bin symbol on the device or on its packaging indicates that the product - at the end of its life cycle - must be collected separately from other waste to enable it to be properly treated and recycled.

The user must therefore return the end-of-life equipment free of charge to the appropriate local electrical and electronic waste collection centres, or return it to the retailer.

Adequate separate collection for the subsequent recycling, treatment and environmentally compatible disposal of the decommissioned device helps to avoid any negative effects on the environment and health and promotes the reuse and/or recycling of the materials making up the equipment. Unauthorised disposal of the product by the user will result in the application of the sanctions provided for by current legislation.

Information pursuant to art. 26 of Italian Legislative Decree no. 49 of 14 March 2014 “Implementation of Directive 2012/19/EU on waste electrical and electronic equipment (WEEE)”.

The EHC 602 is an edge controller with the NEXIO platform on board that allows the integration of different protocols and application logics. It allows any type of data and alarms to be displayed in a simple and intuitive way for secure and complete remote management.

Advanced gateway functionality, possibility of exposing all connected devices on the IP network in Modbus and BACnet. Two RS 485 ports freely configurable in Modbus and BACnet protocols Maximum 5 M-bus devices connected directly to the M-Bus port without any additional power supply. Internal data logger for data logging of monitoring devices

Dual RJ45 ports for daisy-chain and fault-bypass LAN connection (physical connection in case of power failure). Temporary Wi-Fi hotspot enabling via button for device configuration and/or connection to supervisor (after 5min of inactivity it switches off)
Configuration via internal webserver that can also be reached from the Wi-Fi port, which can be activated by means of a button present and accessible from outside the case.

The following tables show all the specifications for the EHC 602.

Hardware Specifications

N.	DESCRIPTION
2	RS-485 ports
1	M-BUS ports
1	C-BUS ports
2	Ethernet ports
10	Signal LED
1	WiFi activation button

Processor	Quad-core Cortex-A72 (ARM v8) 64-bit 1.5GHz
Ram	4 GB LPDDR4
On-board Flash storage	16GB 8-bit eMMC

Mechanical Specifications

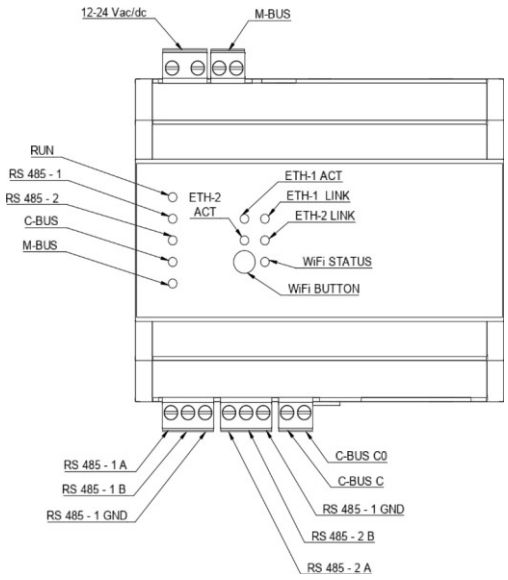
Operating temperature	0…+60 °C
Storage temperature	-10…+80 °C
Weight	185 g
Dimension	6 DIN modules 90 x 105 x 71 mm (h x l x p)

Electrical Specifications

Power supply	12 ÷ 24 V AC/DC
Maximum power consumption	10 W
Front protection degree	IP 20
Rear protection degree	IP 20

Electrical connections and LEDs

Each LED signals a precise activity/status of the device. Below is a summary image. The RUN LED lights up if the device is powered and flashes during device start-up. The serial port LEDs indicate activity on the serial ports (in both Modbus and BACnet configurations) by flashing. There is also an indication for Wi-Fi activation, which turns off when Wi-Fi is no longer available. Finally, the LEDs on the Ethernet ports are the standard Activity & Link LEDs on any RJ45 port.



It is good practice for the installer to check the cross-section and type of cable used for the connection, so that the national and local regulations in force are complied with. If a cable is damaged, it must be replaced by the manufacturer, the service department or any similarly qualified person in order to avoid possible damage.

ATTENTION: A specific RS-485 cable (e.g. Belden 9842 or equivalent) must be used for connection to field devices via the RS-485 bus.

Reference Directives and Technical standards

- EMC Directive and subsequent amendments: 2014/30/EU EMC
- General Product Safety Directive: 2001/95/EU
- Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS): 2011/65/EU
- Technical standards
- EN 61326-6-1:2013
- EN 61010-1:2010+A1:2019

Registration in the Register of Producers of Electrical and Electronic Equipment with number **IT17030000009747**.