REGIN CorrigoArdo Pre-Programmed 24 V Ventilation Controller Instructions

Contents

REGIN THE CHALLENGER

REGIN CorrigoArdo Pre-Programmed 24 V Ventilation Controller

Pre-programmed 24 V ventilation controller with built-in communication via EXOline, Modbus or BACnet. Fast and easy setup with predefined applications for ventilation and selectable I/O configuration.

- Supply voltage 24 V AC
- Easy installation: Connect the controller, set the parameters and start up
- Easy configuration using Application tool
- Communication via BACnet, Modbus and EXOline
- Versatility through number of ports and expansion units

Application

CorrigoArdo is intended for control of ventilation applications in buildings. Models featuring two or three communication ports are available, which makes it very versatile. An overview of all connection options are shown in the table under Models. The number of I/O’s can be expanded by different types of expansion units, like Ardo expansion units, Vido expansion units, Presigo and Wireless sensors.

Function

The CorrigoArdo controller supports communication via EXOline-TCP and BACnet/IP using the Ethernet port. Additionally, models containing the RS485 electrical interface also support BACnet MS/TP, EXOline and Modbus via that port. This enables integration of the controller into existing networks and monitoring of the system via internet, a mobile device or from a local computer. A network connection enables adjusting setpoints, saving settings and supervising system functions from anywhere in the world. All models contain an integrated web interface. The web interface can be used in both intranet and internet solutions. It will automatically upload the information and values required to the web pages.

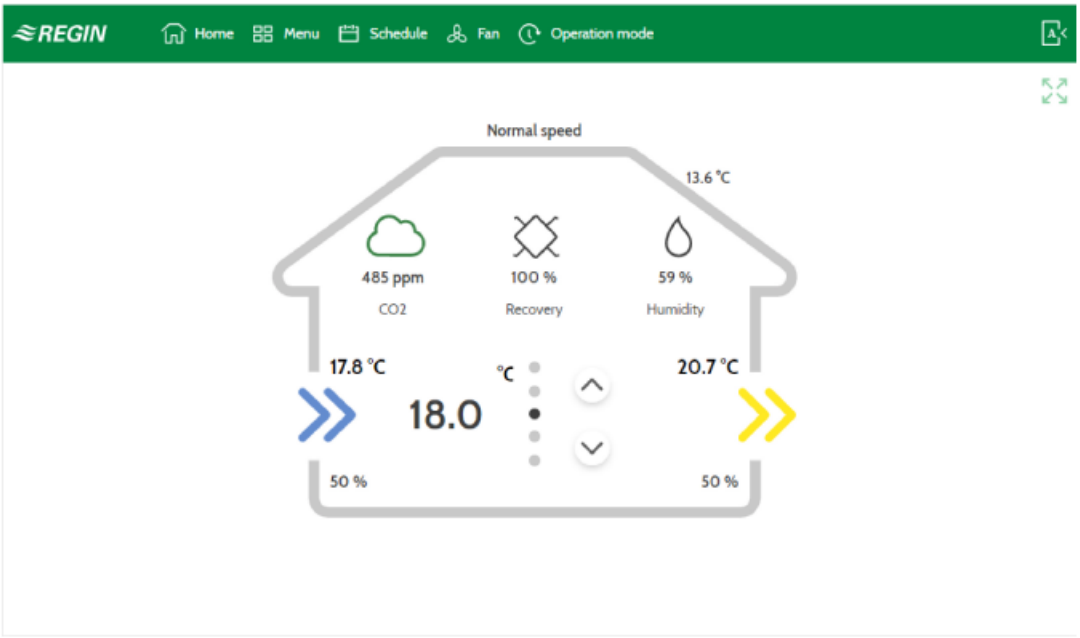


Fig. 1 Start page web interface

Installation

The controller can also easily be connected to Application tool, a PC-based software that enables configuration and supervision of an installation via a graphical interface. This helps save time as the software provides an excellent overview of all settings. With Application tool it is possible to activate the connection of the controller to CLOUDigo, a cloud-based service for supervision via the internet. This can also be done using the display. When activated, the controller will by itself locate the CLOUDigo server in which all settings are stored. The user then navigates to the same server and controls the system from there.

Technical data

General

- **Supply voltage:** 24 V AC (21…27 V AC 50…60 Hz) / 20…36 V DC
- **Protection class:** IP20
- **Ambient temperature:** 0…50 °C
- **Storage temperature:** -20…+70 °C
- **Ambient humidity Max:** 95 % RH
- **Mounting:** DIN-rail
- **Number of modules:** 8.5
- **Display type:** Backlit (LCD), 4 rows of 20 characters
- **Configuration:** PT1000/Ni1000/Ni1000LG/0-10V
- **Operating system:** EXOrealC
- **Clock:** Real-time clock
- **Memory backup:** Backup of memory and real-time clock function
- **Battery backup:** CR2032 replaceable Lithium cell
- **Battery life:** Min. 5 years
- **Dimensions, external (WxHxD):** Q 149 x 121 x 60 mm

- **Weight (incl. packaging):** 0.41 kg

Inputs

- **Analogue inputs (AI):** For PT1000 or Ni1000 sensors (accuracy ± 0,4 °C) or 0…10 V DC (Accuracy ± 0,115 % of full output signal). 12 bit resolution in the A/D conversion.
- **Digital inputs (DI):** For potential-free contacts
- **Universal inputs (UI):** Can be configured to function as either analogue input or digital input.

Outputs

- **Analogue outputs (AO):** 0…10 V DC, 5mA, short-circuit proof
- **Digital outputs (DO):** Mosfet outputs, 24 V AC or DC, 2A continuous. Max. 8 A in total

Serial port data

- **Port type:** RS485
- **Default protocol:** EXOline
- **Supported protocols:** Modbus / EXOline / BACnet MS/TP
- **Port isolation:** Galvanic common mode voltage, Max. 150 V
- **Communication speed:** 9600 baud (1200…76800 baud)
- **Parity:** Odd/Even/None
- **Stop bits:** 1 or 2

Ethernet port data

- **Port type:** Ethernet
- **Default protocol:** EXOline-TCP
- **Supported protocols:** EXOline-TCP / Modbus-TCP / BACnet/IP

This product carries the CE-mark. More information is available at **www.regincontrols.com.**

Material

- **Material, housing:** Polycarbonate (PC)
- **Material, base:** Polycarbonate (PC)

Models

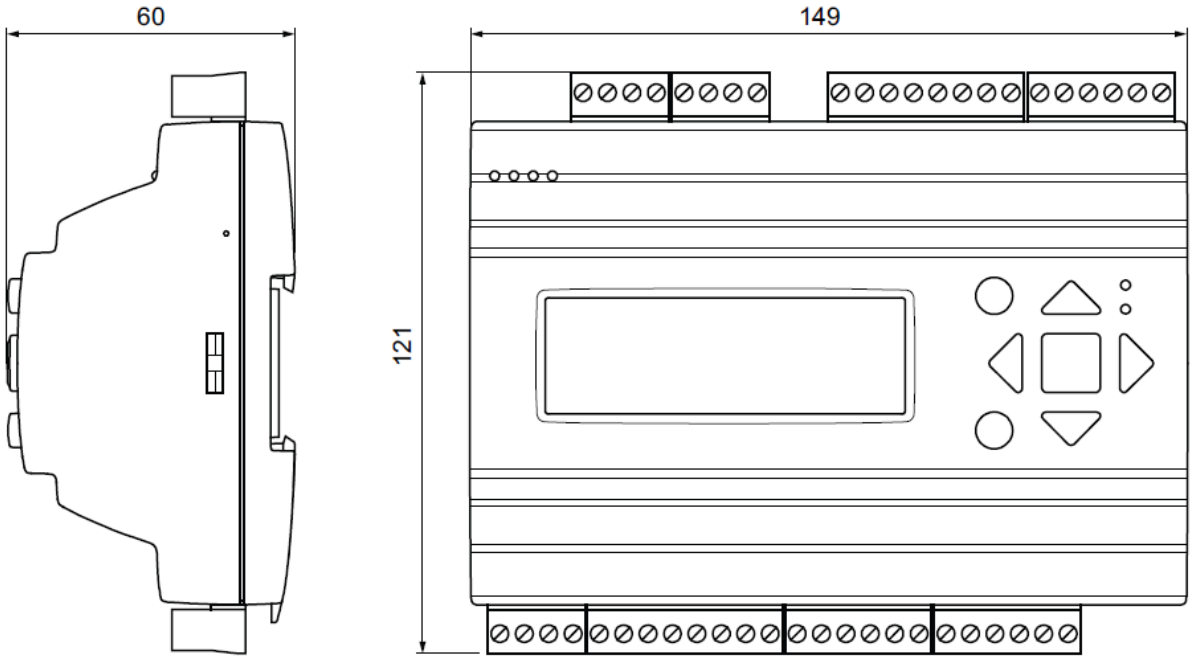
Article	RS485 ports	Ethernet ports	Display	AI	DI	UI	AO	DO	Power consump-tion
VCA152DW-4	1	1	Yes	4	4	0	3	4	9 VA
VCA152W-4	1	1	No	4	4	0	3	4	9 VA
VCA283DW-4	2	1	Yes	4	8	4	5	7	9 VA
VCA283W-4	2	1	No	4	8	4	5	7	9 VA

Accessories

Article Description

- **ED-T43L-V:** External touch display
- **E3-DSP:** External display
- **E0R-3:** Repeater 24 V
- **E0R230K-3:** Repeater 230 V
- **IO-A15MIXW-3-BEM:** Expansion unit with 15 I/O:s
- **IO-V19MIXW-1-BEM:** Expansion unit with 19 I/O:s
- **IO-A28MIXW-3-BEM:** Expansion unit with 28 I/O:s

Dimensions



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Documentation
All documentation can be downloaded from **www.regincontrols.com.**

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Documents / Resources

	**REGIN CorrigoArdo Pre-Programmed 24 V Ventilation Controller** [pdf] Instructions CorrigoArdo Pre-Programmed 24 V Ventilation Controller, Pre-Programmed 24 V Ventilation Controller, 24 V Ventilation Controller, Ventilation Controller, Controller