



Corrigo ventilation

Third generation controllers for ventilation applications in buildings

Complete, flexible controller with or without display.

- Built-in support for many different languages
- Now supports communication via BACnet
- Fast TCP/IP communication

Corrigo is a series of controllers that can be used either stand-alone or as part of a network. The third generation controllers have built-in support for 22 different languages and greatly improved processor speed. Corrigo is designed for standard DIN rail or cabinet mounting.

The easy way to perfect control

Corrigo makes every step from installation to operation and maintenance easier than ever. Simply connect the controller, enter any settings as desired and start up.

Areas of application

Corrigo is intended for control of air handling units with temperature control (up to 5 sequences), 1- or 2-speed operation, or alternatively pressure or air flow control of supply air fan and extract air fan, humidity control and other functions in ventilation.

Number of ports and expansion units

Corrigo is available in models featuring one, two or three communication ports. In models with two ports, port 1 is used to connect to a SCADA system (see model overview on page 3) and Regin's E tool[®] software tool. Port 2 is used for expansion units, room units and frequency converters.

In models with 3 ports, ports 2 and 3 (RS485) have the same function, making all options available for both ports. However, both ports cannot be configured to have the same function simultaneously.

Port 2 can also be used to communicate with two Vacon NXL, Lenze, Omron V1000, LS, EBM or Emerson Commander brand frequency converters. Both a frequency converter and expansion unit can be connected to the same port. Control and transmission of alarms from the frequency converters takes place via Modbus communication.

- Fast processor
- Supports dual displays
- Many areas of application

In order to expand the number of I/Os of a controller, up to two Corrigo units can be connected to models with two ports. The maximum input/output number is $3 \times 28 = 84$.

Any Corrigo controller can be used as an expansion unit. However, units without a display are normally utilised since no information will be shown in the display of the expansion unit.

E tool[®]

E tool[®] is a PC-based software that enables comprehensive configuration and supervision of an installation via a graphical interface. This helps conserve time as the program provides an excellent overview of all settings. To connect a Corrigo to a PC running E tool[®], E-CABLE-TCP/IP, a crossover network cable, should be used.



Communication

Third generation Corrigo controllers featuring a TCP/IP port have a built-in web server and a communication speed 5-20 times faster than that of the second generation controllers. Third generation models with TCP/IP port are also equipped with BACnet/IP. Corrigo is also available with an RS485 port for connection via EXOline or Modbus. This enables integration of the controller into existing networks and monitoring of the system via the Internet, a mobile device or from a local computer. Connection via LAN/Internet enables adjusting setpoints, saving settings and supervising system functions.





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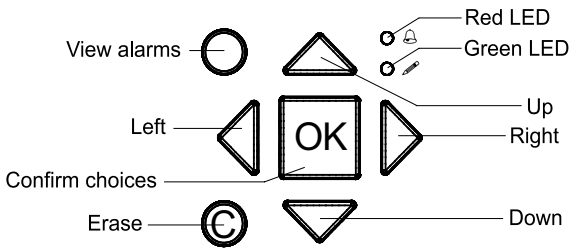
Built-in display

Corrigo is available with or without display. In units with a display, it is backlit and has 4 rows of 20 characters each. The display light is normally dimmed but is activated when a button is depressed and automatically lowered again after a certain period of inactivity.

There are two LEDs on the front:

- The alarm LED is marked with the symbol 
- The “write enable” LED is marked with the symbol 

The display menu system is handled using seven buttons:



External displays

Models without a display can be mounted in a cabinet and controlled from outside using the E3-DSP display unit, which functions as an external display at a distance of up to 100 m. The ED-RU.../RU-D... series of room units can also be used for control and monitoring of a air handling system. They are available with or without a display, connected via RS485 and can communicate with the Corrigo at a distance of up to 300 m. The user-friendly ED-TCV touch display is also available for third generation Corrigo controllers, as well as the external ED9200 display unit.

The third generation Corrigo also enables use of both an internal and external display at the same time.



For more information on ED-TCV, ED-RU, E3-DSP and ED9200, see the product sheet for each product.

Integrated web server

The E...-W-3 models contains an integrated web server, easy to commission and configure using E tool®. Corrigo E with integrated web server can be used both in internal intranet and external Internet solutions.

The web server will automatically upload the information and values required to the web pages. Real time charts are also available.



Web server screen shots

The Building Access Android application

Building Access is a general application for the Android operating system which enables accessing a Regin controller with TCP/IP communication via, for instance, a mobile or Wi-Fi network. Once connected, parameters, alarms, documentation, etc. from the controller can all be viewed in the form of lists.

The application is intended for use with a mobile phone but can also run on a tablet. Building Access can be downloaded free of charge from Google Play.



Building Access has a user interface similar to the web site

CLOUDigo

As of E tool® v. 3.0, it is possible to connect a Corrigo to CLOUDigo, a cloud-based service that makes it easy to supervise a Corrigo via the Internet.

Simply load the URL required to locate the cloud server into the Corrigo. Once done, the Corrigo will by itself locate the CLOUDigo server in which all settings are stored. The user then navigates to the same server and controls the air handling system from there.

For more information, see “CLOUDigo User Guide”, available for download from www.regin.se.



The CLOUDigo start page

Models

	E81-3	E81D-3	E151-3	E151W-3	E151D-3	E151DW-3	E15D-S-LON	E152W-3	E152DW-3	E281-3	E281D-3	E281W-3	E281DW-3	E282W-3	E282DW-3	E28D-S-LON	E283W-3	E283DW-3
AI*	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
DI*	3	3	4	4	4	4	4	4	4	8	8	8	8	8	8	8	8	8
UI*	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4
AO*	1	1	3	3	3	3	3	3	3	5	5	5	5	5	5	5	5	5
DO*	2	2	4	4	4	4	4	4	4	7	7	7	7	7	7	7	7	7
RS485	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BACnet/IP				•		•		•	•			•	•	•	•		•	•
LON							•									•		
TCP/IP				•		•		•	•			•	•	•	•		•	•
1 port	•	•	•	•	•	•	•			•	•	•	•					
2 ports								•	•					•	•	•		
3 ports																	•	•
Display		•			•	•	•		•		•		•		•	•		•

* AI=analogue inputs, DI=digital inputs, AO=analogue outputs, DO=digital outputs, UI=universal inputs (can be configured to function as either analogue input or digital input)

All third generation Corrigo controllers support external displays.

Accessories

For a complete list of accessories, see Regin's web site, www.regin.se.

Technical data

Supply voltage	24 V AC $\pm 15\%$, 50...60 Hz or 21...36 V DC
Power consumption	8 VA, 4 W (DC), model E...W-3: 12 VA, 6 W (DC)
Ambient temperature	0...50°C
Storage temperature	-40...+50°C
Ambient humidity	Max. 90% RH
Protection class	IP20
Connection	Disconnectable terminal strips, 4 mm ²
Memory backup	Built-in long life battery gives long backup time of all settings incl. real time.
Display	Backlit LCD (blue), 4 rows of 20 characters
CE	EMC emissions & immunity standard: This product conforms to the requirements of the EMC Directive 2004/108/EC through product standards EN 61000-6-1 and EN 61000-6-3. RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

Inputs

Analogue inputs	For PT1000 sensors (accuracy $\pm 0.4^\circ\text{C}$) or 0...10 V DC (accuracy $\pm 0.15\%$ of full output signal). 12 bit resolution in the A/O conversion.
Digital inputs	For potential free contacts

Outputs

Analogue outputs	0...10 V DC, 1 mA, short-circuit proof
Digital outputs	Mosfet outputs, 24 V AC or DC, 2 A continuous. Max. 8 A in total.

Communication ports

TCP/IP port (E...W-3)	Web server, TCP/IP communication, BACnet/IP communication and Android application
LON port (E...S-LON)	LON communication
RS485	EXOline and Modbus communication

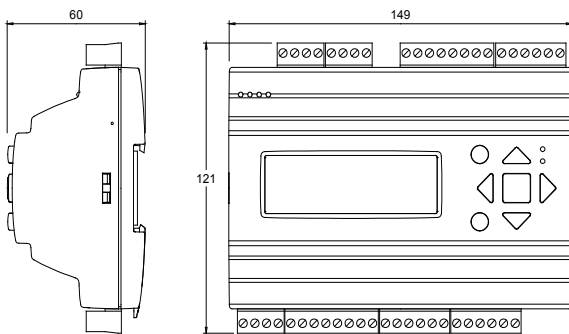
Indications

Operation indication	Supply voltage is indicated with green LED
Alarm indication	Plain text and blinking red LED
Sum alarm	The output can be configured

E tool®

System requirements	Computer with operating system MS Windows 2000, 8, 7, XP, Vista, Windows 7 or Windows 8
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Dimensions



Measurements in mm

Product documentation

Document	Type
Manual Corrigo ventilation	Manual for Corrigo ventilation
Manual E tool®	Manual for the software E tool® and Corrigo with web server
Product sheet and instruction E3-DSP, ED-RU, ED-TCV	Information about accessories for Corrigo
Product sheet and instruction E0-R/E0-R230K	
Product sheet ED9200	
Instruction FMCE	
Instruction RM6-24/D / RM6H-24/D	

The product documentation can be downloaded from www.regin.se.

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