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CONTROLLERS FOR DIN-RAIL MOUNTING

-8°C

+23°C

+21°C

Corrigo

Corrigo comes preloaded with applications for control of ventilation as well as heating (except for models with built-in M-Bus which can only be used for heating applications).

Corrigo ventilation

Corrigo running a ventilation application is intended for control of air handling units with temperature control, 1- or 2-speed operation or, alternatively, pressure or air flow control of supply air fan and extract air fan, humidity control as well as other common functions in ventilation.

Corrigo heating

Corrigo running a heating application is intended for control of heating substations in buildings. The controller supports control of up to 3 heating circuits and 2 DHW circuits. Corrigo heating also has built-in boiler control for a total of 4 boilers. It can also controll a cooling circuit with dew-point control.

Technical data	
Supply voltage	24 V AC ± 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 mm2
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
Mounting	DIN-rail or cabinet
Number of modules	8.5
Dimensions (WxHxD)	149 x 121 x 60 mm
Number of languages	22
Communication ports	
TCP/IP	EXOline TCP, Modbus TCP, BACnet/IP, CLOUDigo
RS485	EXOline, Modbus, BACnet MS/TP
M-Bus ports	M-Bus communication
Inputs	
Analogue inputs (AI)	For PT1000 sensors (accuracy ± 0.4°C) or 0...10 V DC (accuracy ± 0.15 % of full output signal). 12 bit resolution in the A/O conversion.
Digital inputs (DI)	For potential-free contacts
Outputs	
Analogue outputs (AO)	0...10 V DC, 1 mA, short-circuit proof
Digital outputs (DO)	Mosfet outputs, 24 V AC or DC, 2 A continuous. Max. 8 A in total.

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Controller with display

Article	AI	DI	UI	AO	DO	RS485 ports	Note
E81D-3	2	3	-	1	2	1	
E151D-3	4	4	-	3	4	1	
E281D-3	4	8	4	5	7	1	

Controller without display

Article	AI	DI	UI	AO	DO	RS485 ports	Note
E81-3	2	3	-	1	2	1	
E151-3	4	4	-	3	4	1	
E281-3	4	8	4	5	7	1	

Controller with built-in web server and TCP/IP communication, with display

Article	AI	DI	UI	AO	DO	RS485 ports	TCP/IP ports	Note
E151DW-3	4	4	-	3	4	-	1	
E152DW-3	4	4	-	3	4	1	1	
E281DW-3	4	8	4	5	7	-	1	
E282DW-3	4	8	4	5	7	1	1	
E283DW-3	4	8	4	5	7	2	1	

Controller with built-in web server and TCP/IP communication, without display

Article	AI	DI	UI	AO	DO	RS485 ports	TCP/IP ports	Note
E151W-3	4	4	-	3	4	-	1	
E152W-3	4	4	-	3	4	1	1	
E281W-3	4	8	4	5	7	-	1	
E282W-3	4	8	4	5	7	1	1	
E283W-3	4	8	4	5	7	2	1	

Controller with built-in M-Bus, web server and TCP/IP communication, with display

Article	AI	DI	UI	AO	DO	RS485 ports	TCP/IP ports	M-Bus ports	Note
E152DWM-3	4	4	-	3	4	-	1	1	
E282DWM-3	4	8	4	5	7	-	1	1	
E283DWM-3	4	8	4	5	7	1	1	1	

These models can only be used for heating applications.

Controller with LON communication, with display

Article	Inputs	Outputs	Note
E15D-S-LON	8	7	
E28D-S-LON	16	12	

Technical data for these models differ from the rest, please contact Regin for more information.

Exigo

The easy way to control heating installations in residential buildings

Exigo are controllers for heating and boiler control that make every step from installation to operation and maintenance easier than ever. Simply connect the controller, enter any settings as desired and start up. Exigo can be used either stand-alone or integrated into a network using BACnet, Modbus and EXO-line. It has built-in support for many different languages. Exigo is designed for mounting on a DIN-rail or in a cabinet door or over a device box. It can also be mounted directly on a wall. Exigo supports control of up to 3 heating circuits, 2 DHW circuits and boiler control of 1-4 boilers. It also has Delta T control over the heat exchanger.

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Technical Data	
Supply voltage	230 V AC
Ambient temperature	0...50 °C
Storage temperature	-20...+70 °C
Ambient humidity	Max. 95 % RH, non-condensing
Protection class	IP20 (IP40 when mounted in cabinet door)
Battery backup	Memory and real-time clock function
Display	4 rows of 20 characters each, backlit
Inputs	
Analogue inputs (AI)	PT1000 (-50…+150°C)
Digital inputs (DI)	Potential-free closure
Outputs	
Analogue outputs (AO)	Configurable 0…10 V DC; 2…10 V DC; 10…0 V DC or 10…2 V DC (8 bit D/A short-circuit protected)
Digital outputs (DO)	7x relay, 230 V AC, 1 A inductive load, max. 7 A total
Communication ports	
TCP/IP	Web server, EXOline, Modbus, BACnet/IP
RS485	EXOline, Modbus, BACnet MS/TP
Two-line bus (M-Bus+/M-Bus-)	M-Bus

Article	Display	AI	DI	UA	DO	RS485 ports	TCP/IP ports	M-Bus ports	Power consumption	Note
HC190D-1	X	4	2		7	-	-	-	7.5 VA	
HC191-1 *	-	4	2		7	1	-	-	6.5 VA	
HC191D-1	X	4	2		7	1	-	-	7.5 VA	
HC192DW-1	X	4	2		7	1	1	-	10 VA	
HC192W-1 *	-	4	2		7	1	1	-	9 VA	
HC193DWM-1	X	4	2		7	1	1	1	10.5 VA	

* Non-stock item.

Optigo – Pre-programmed, stand-alone controllers

The controller for simple applications

Optigo is a series of compact, economic and versatile stand-alone controllers. They are pre-programmed and intended for smaller applications. The controllers are extremely easy to install, commission and control.

READY STEADY GO

Technical data	
Supply voltage	24 V AC ±15 % / OP10-230 : 230 V AC
Power consumption	4 VA
Ambient temperature	0...50 °C
Storage temperature	-40…+50 °C
Ambient humidity	Max. 90 % RH
Mounting	DIN-rail
Number of modules	7
Protection class	IP20
Display	Backlit LCD, numeric/graphic, language-independent symbols
Dimensions (WxHxD)	123 x 123 x 60 mm
Clock	Week-based 24-hour clock (OP10 only)
Inputs	
Analogue inputs (AI)	PT1000
Digital inputs (DI)	Closing potential-free contact
Universal inputs (UI)	0...10 V DC or digital
Setpoint input (SPI)	For an external PT1000 setpoint device, e.g. TG-R4/PT1000 or TBI-PT1000
Outputs	
Analogue outputs (AO)	0...10 V DC, short-circuit protected
Digital outputs (DO)	OP10 and OP10-230 only. Triac 24 V AC, 0.5 A (3-point control or alarm output) and one change-over relay 230 V AC, 5 A (fan start).

Inputs/Outputs (I/Os)

Article	AI	DI	UI	AO	DO	Total number of I/Os	Note
OP5U	1	1	1	2	-	5	
OP10	2	2	1	2	3	10	
OP10-230	2	2	1	2	3	10	

Article	Supply voltage	Number of I/Os	Note
OP5U	24 V AC ±15 %	5	
OP10	24 V AC ±15 %	10	
OP10-230	230 V AC	10	

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Duct controllers

Duct controller, one 0...10 V DC output

Compact controller for mounting in ventilation ducts. The controller has a built-in sensor and setpoint control. An external setpoint potentiometer can be connected if required. Can be used to control either heating or cooling. P- or PI-control optional.

AL24A1K has an input for change-over between heating and cooling. The change-over function can be activated by means of an external closing contact or a sensor mounted on the supply-water side of the heating/cooling unit.

Technical data	
Supply voltage	24 V AC, 2 VA
Output	One, 0...10 V DC
Setpoint	0...30 °C
P-band	0.5...50 K
I-time	2 min/20 min, selectable
Change-over	Input for closing contact or sensor (0...30°C)
Mounting	Duct
Protection class	IP65

Article	Description	Note
AL24A1K	Duct controller, one 0...10 V DC output	

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Accessories for Corrigo, Exigo and Optigo

External display units for Corrigo and Exigo

E3-DSP

ED9200

Article	Cable length	Protection class	Compatible with	Note
E3-DSP	Max. 100 m	IP30	Corrigo E...-3, EXOcompact C...-3, Exigo, EXOdos	
ED9200	Max. 10 m (EXOcompact C...-S), max. 100 m (Corrigo E...-3, EXOcompact C...-3, Exigo, EXOdos)	IP41	Corrigo, EXOcompact, Exigo, EXOdos	
ED9200IP65	Max. 10 m (EXOcompact C...-S), max. 100 m (Corrigo E...-3, EXOcompact C...-3, Exigo, EXOdos)	IP65	Corrigo, EXOcompact, Exigo, EXOdos	

Accessories

Article	Description	Note
EDSP-K3	3 m cable for connecting E3-DSP or ED9200 to a Corrigo E...-3, EXOcompact C...-3, Exigo or EXOdos	
EDSP-K10	10 m cable for connecting E3-DSP or ED9200 to a Corrigo E...-3, EXOcompact C...-3, Exigo or EXOdos	

Graphic touch display for Corrigo

For operation of a Corrigo ventilation with two ports. Intended for supervision and control of an air handling system.

Technical data	
Protection class	IP30
Power supply	24 V DC via terminal 4 (+C) and G0 on the Corrigo
Power consumption	50 mA
Connection cable	Twisted pair, 0.25 mm2
Display	TFT-LCD (resistive), backlit LED
Language	Swedish or English, set automatically depending on the language used in the Corrigo
Aspect ratio	4:3
Resolution	320 x 240
Dimensions (WxHxD)	120 x 90 x 27 mm
Mounting	Room or device box
Communication	EXOline

Article	Description	Note
ED-TCV	External graphic touch display	

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ED-RU-O

ED-RU-FO

ED-RU-DO

ED-RU-DFO

ED-RU-DOS

External room unit

The ED-RU units are primarily intended for control of an air handling unit via a Corrigo controller running a ventilation application. They can be used to change fan speed, set temperature, extended running, etc. at a distance of up to 300 m. Their stylish design is suitable for all environments.

The units have a built-in temperature sensor. An external PT1000-sensor can also be connected.

Technical data	
Supply voltage	24 V AC
Power consumption	25 mA
Protection class	IP20
Ambient humidity	Max. 90 % RH
Storage temperature	-20…+70 °C
Mounting	Room or device box
Dimensions (WxHxD)	95 x 95 x 28 mm
Communication	EXOline

Article	Occupancy button	3-step fan control	Setpoint knob	Multi-function button	Display	Note
ED-RU-O	X	-	X	-	-	
ED-RU-FO	X	X	X	-	-	
ED-RU-DO	X	-	-	-	X	
ED-RU-DFO	X	X	-	-	X	
ED-RU-DOS	X	-	-	X	X	

The ED-RU range can also be used together with EXOcompact, EXOdos and EXOflex. If so, the room units must first be configured by a competent system integrator via Project Builder.

Displays for panel mounting

Panel computers intended for mounting in, for example, a cabinet door. They can easily be connected to Regin's EXOscada system and to controllers with integrated web server.

Technical data	
CPU type	Intel® Atom™ E3845 (2M Cache, 1.91 GHz)
RAM	4 GB, DDR3L on-board
Supply voltage	Power supply unit for 12 V DC (2.5 A) included in the delivery
Protection class	IP65
Mounting	Cabinet mounting (screws included), VESA 75 / 100 (ordered separately)
Ports	4 x COM ports (RS232), 4 x USB ports, 2 x LAN ports (Intel GbE)

Article	Description	Monitor size	Resolution	Note
DP102N	Display for panel mounting	10.2"	1024 x 600	
DP156N	Display for panel mounting	15.6"	1366 x 768	

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Software for configuration of Corrigo

E tool© is a PC-based configuration software with graphical user interface. The program provides an excellent overview of the settings of the Corrigo. Using E tool©, all settings can be made on the computer and downloaded into the controller. An infinite number of configurations can be stored in the computer memory for later use.

E tool© can be downloaded free of charge from our web site.

Article	Description
E-TOOL	PC software for fast and easy configuration, can be downloaded free of charge from www.regincontrols.com

Connection cables and plug-in terminals

Article	Description	Note
E-CABLE-RS232	Cable for RS232 connection	
E-CABLE2-USB	Cable for USB connection	
E-CABLE-TCP/IP	Cable for TCP/IP connection directly to a PC	
PLT-E8	Set of plug-in terminals for E8 models	
PLT-E15	Set of plug-in terminals for E15 models	
PLT-E28	Set of plug-in terminals for E28 models	

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CLOUDigo – The easiest way to complete control of your installations

For the user who wants complete control of the buildings' indoor climate at all times, CLOUDigo is the tool of choice. Our web-based platform can always be reached both by you and your colleagues regardless of your physical location.
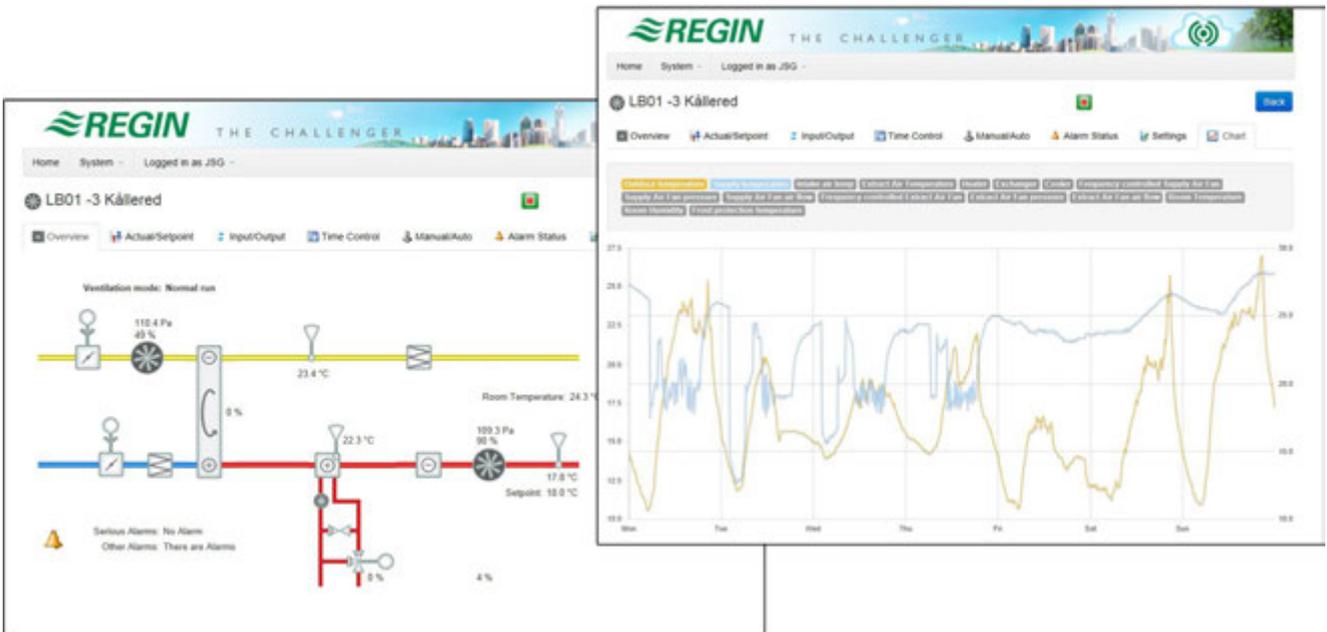
Complete control – anywhere and at any time

Follow your installations in real time with just a few simple clicks. Navigate between the settings and values in connected controllers. CLOUDigo offers excellent overview of all your controllers. All settings made in CLOUDigo take full effect in the controllers instantly. This makes CLOUDigo the natural choice for individuals working with multiple installations or installations distributed over a wide geographical area.

Short facts about CLOUDigo

• Gain control of the indoor climate of your buildings – anywhere and at any time.
• You get the ability to analyse data and act instantly. Quickly, easily and effectively.
• CLOUDigo handles historical data for complete control and overview.
• Work using any screen while still retaining full functionality.
• Getting started is easy. The installation of connected controllers is extremely easy and developed in accordance with our "Ready Steady Go" concept.
• Work using a platform that permits you to grow. You handle your installations – CLOUDigo handles the rest.

Article	Description	Note
CLO-LIC	Cloud service for controller access	

3G modem for CLOUDigo

CLO-3G is a package consisting of a 3G modem with a factory-installed SIM card, ready for immediate connection to CLOUDigo. The modem functions as a gateway between a TCP/IP connected Corrigo and CLOUDigo. It has a built-in DHCP function that handles connecting to an external unit.

To see if your country is eligible for the use of this product, please refer to the document "List of supported countries CLO-3G" on the CLO-3G page on our website.

Technical data	
Supply voltage	24 V AC/DC ±10 %, 50…60 Hz, 200 mA
Connection	Ethernet (RJ45, crossover network cable), antenna (SMA-F contact)
Communication	LAN (TCP/IP, DHCP), mobile network (3G or GSM/GPRS)
Ambient temperature	-30…+60 °C

Article	Description	Note
CLO-3G	3G modem with factory-installed SIM card for connecting to CLOUDigo	

Accessories

Article	Description	Note
MODEM3G-ANT	External antenna for MODEM3G with 3.6 m cable	
E-CABLE-TCP/IP	Cable for TCP/IP connection directly to a PC	

Cabinets for Corrigo

Turn-key ready cabinets developed for the Corrigo series. Can also be used for the EXOcompact controllers. All inputs and outputs are pre-connected to the terminals. The CAB-STD... units are delivered with trafo, switches, relays and a wiring schematic for the cabinet.

Article	Description	Dimensions (HxW)	Protection class	Relays	Note
CAB-STD2	Cabinet intended for Corrigo E15...D... models	483 x 403 mm	IP65	2	
CAB-STD3	Cabinet intended for Corrigo E28...D... models	483 x 403 mm	IP65	3	

Corrigo must be ordered separately.

Corrigo demo case

Complete case with everything you need to test Corrigo. Simply plug the controller into the wall socket using the included transformer in order to make simulations, trigger alarms, view indications, etc.

Technical data	
Supply voltage	24 V AC
Dimensions	28 x 38 x 9 cm mm (HxLxW)

Article	Description	Note
E-CASE-E283DW-3-24	Demo case, contains a Corrigo E283DW-3 unit. Transformer included.	

Front mounting kit for EXOcompact, Corrigo and Optigo

Mounting kit for easier mounting of EXOcompact, Corrigo and Optigo in a control panel or cabinet door.

Technical data	
Protection class	IP40

Article	Description	Note
FMCE	Front mounting kit, room for one EXOcompact/Corrigo unit	
FMCO	Front mounting kit, room for one Optigo unit	

Plug-in terminal blocks for EXOcompact, Corrigo and Optigo

A set of angled plug-in terminal blocks for simple wiring of EXOcompact, Corrigo and Optigo when using the front mounting kits FMCE and FMCO. The terminal blocks enable easy access to the clamping screws even after cabinet mounting.

Article	Description	Note
PLTCE	Plug-in terminal blocks for EXOcompact/Optigo/Corrigo	

Battery

Article	Description	Note
BATTERY-4289	Battery for EP1011, EXOcompact, Corrigo	