Exigo Ardo

Controllers for heating and boiler control,
supply voltage 24 V AC / DC

Exigo Ardo 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. It can be used either stand-alone or integrated into a network. It has built-in support for many different languages and is designed for mounting on a DIN-rail or in a cabinet door.

- ✓ Supply voltage 24 V AC / DC
- ✓ Easy installation: Connect the controller, set the parameters and start up
- ✓ Easy configuration using Exigo Tool
- ✓ Supports control of up to four heating/cooling circuits, two domestic hot water circuits, four boilers, one solar circuit, one buffer tank and district heating
- ✓ Communication via BACnet, Modbus, EXOline and M-Bus
- ✓ Versatility through number of ports and expansion units

Applications

Exigo is intended for control of heatings substations in buildings. It supports control of up to four heating/cooling circuits, two domestic hot water circuits, four boilers, one solar circuit, one buffer tank and district heating.

Versatility through number of ports and expansion units

Exigo models featuring one, two or three communication ports as well as connection via M-Bus are available, which makes it very versatile. See all available connection options in the Models list.

Communication via EXOline, Modbus, BACnet and M-Bus

Exigo supports communication via BACnet/IP, Modbus TCP and EXOline using the TCP/IP port. Additionally, models containing the RS485 electrical interface also support BACnet MS/TP, EXOline and Modbus via that port. There are also models with a M-Bus 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.

Monitor your installation using Exigo Tool

Exigo can easily be connected to Exigo 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.

Simple navigation

Exigo has a built-in display with blue backlight. The backlight is normally turned off, but is activated when a button is pressed and automatically turned off after a certain period of inactivity.
The display menu is handled via the buttons on the front of the controller.
There are also a number of external display units available that can be used to control the Exigo remotely.

Control your system using CLOUDigo

With Exigo tool, it is possible to connect an Exigo to CLOUDigo, a cloud-based service that makes it very easy to supervise an Exigo via the internet.
Simply tick the checkbox in Exigo tool and load the TCP/IP settings to locate the server available in the cloud.
This can also be done using the display. When it is done, the Exigo 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 heating system from there.

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Exigo Ardo

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REGIN
THE CHALLENGER

Technical data

Supply voltage	24 V AC ± 15 %, 50...60 Hz or 21...36 V DC
Ambient temperature	0...50 °C
Storage temperature	-20…+70 °C
Ambient humidity	Max. 95 % 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
Battery type	CR2032 replaceable Lithium cell
Battery life	Min. 5 years
Display	Backlit LCD, 4 rows of 20 characters
Mounting	DIN-rail or cabinet
Housing	Standard Euronorm (8.5 modules wide)
Dimensions (WxHxD)	149 x 121 x 60 mm incl. terminals

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/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, 1 mA, short-circuit proof
Digital outputs (DO)	Mosfet outputs, 24 V AC or DC, 2 A continuous. Max. 8 A in total.

Communication ports

TCP/IP	EXOline, Modbus, BACnet/IP, CLOUDigo
RS485	EXOline, Modbus, BACnet MS/TP
M-Bus ports	M-Bus communication

Models

Article	Display	AI	DI	UI	AO	DO	RS485 ports	TCP/IP ports	M-Bus ports	Power consumption
HCA151DW-3	X	4	4	-	3	4	-	1	-	9 VA
HCA152DW-3	X	4	4	-	3	4	1	1	-	9 VA
HCA281DW-3	X	4	8	4	5	7	-	1	-	9 VA
HCA282DW-3	X	4	8	4	5	7	1	1	-	9 VA
HCA283DW-3	X	4	8	4	5	7	2	1	-	9 VA
HCA283DWM-3	X	4	8	4	5	7	1	1	1	9 VA

Accessories

Article	Description
E3-DSP	External display
ED-T7	External touch screen display
E0R-3	Repeater 24 V
E0R230K-3	Repeater 230 V
IO-A15MIXW-3-BEM	Ardo expansion unit with 15 I/O:s
IO-A28MIXW-3-BEM	Ardo expansion unit with 28 I/O:s
IO-V19MIXW-1-BEM	Vido expansion unit with 19 I/O:s

CE

EMC emissions & immunity standard: This product conforms to the requirements of the EMC Directive 2014/30/EU through product standards EN 61000-6-2 and EN 61000-6-3.

RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

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REGIN
THE CHALLENGER

Dimensions
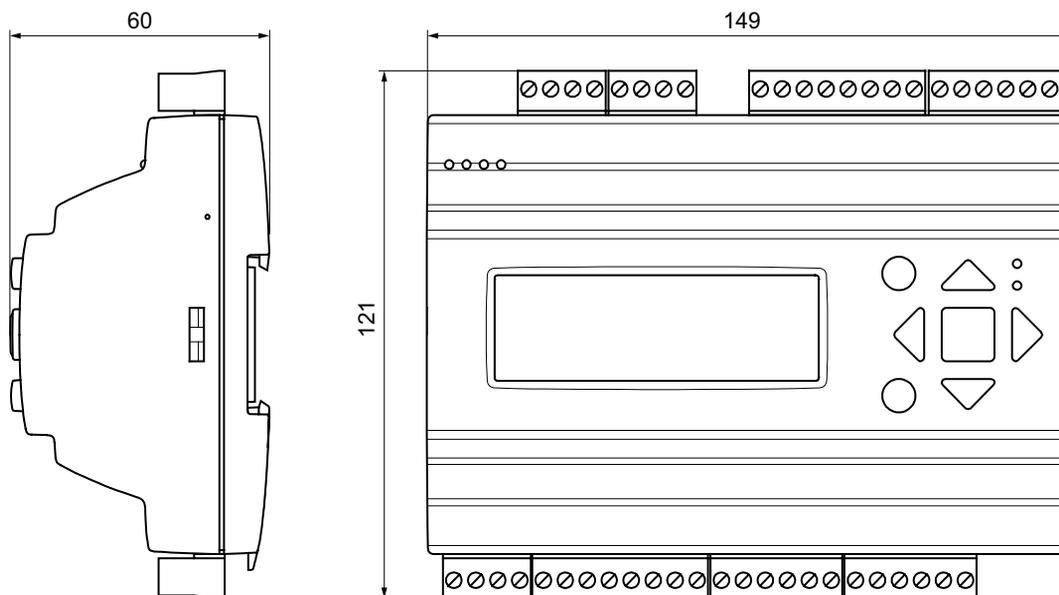
Measurements in mm unless otherwise specified.

Product documentation

Document	Type
Instruction Exigo Ardo	Instruction for installation of the Exigo Ardo
Manual Exigo	Manual for Exigo Ardo and Exigo Vido
Manual Exigo Tool	Manual for the configuration software Exigo Tool and web configuration
Exigo list of variables	List of network variables for EXOline, Modbus and BACnet communication for Exigo
Product sheet Ardo expansion units	Product sheet for Ardo expansion units
Product sheet Vido expansion units	Product sheet for Vido expansion units
CLOUDigo user guide	User guide for CLOUDigo

The documentation can be downloaded from www.regincontrols.com.

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