

Add:io

Additional I/O units



Additional I/O units for EXOcompact and EXOclever with 16 supplementary I/Os per Add:io. Possibility to expand an EXOclever controller with unlimited I/Os and an EXOcompact with up to 50 I/Os. The Add:io units fit smoothly together, requiring minimal space.

- ✓ Plug'n play with Regin's system solution
- ✓ Easy to increase the amount of I/Os
- ✓ Add I/Os next to the controller, or in another cabinet up to 200 m away
- ✓ Ideal to combine with other modules in the Add:io series

Application

The Add:io series is intended for use in combination with EXOclever and EXOcompact to expand the number of I/Os in a system. Each unit expands the system with 16 I/Os. An EXOclever controller can be expanded with unlimited I/Os or an EXOcompact with up to 50 I/Os.

The units are programmable in EXOdesigner, the same environment used for all other EXO controllers.

Function

The Add:io and the controller communicate via the EFX port. The units are connected with a cable allowing 200 meters communication distance. Some models are equipped with a 0(4)...20 mA input, especially adapted for the Water and Wastewater segment.

Status indication is shown by LEDs on the side of the unit which makes it easy to see if there is a connection problem, if data is being transferred.

Installation

The units fit smoothly together, requiring minimal space. They can be mounted in two ways, either on their backside or stacked on the short side with a high packing density as a result. They are equipped with push-in connectors for fast cable installation and easy test measurements.

Each unit has a unique address which is easily set with DIP-switches.

Technical data

General data

Supply voltage	24 V AC/DC (18...26 V AC / 22...30 V DC)
Power consumption, nominal	IO-EC16UOb-X: 7.8 VA / 3.5 W IO-...Ulc and ...Uld: 4.5 VA / 1.8 W
Protection class	IP20
Ambient humidity	Max. 95 % RH
Ambient temp. (working)	0...55 °C
Ambient temp., electronics (working)	0...55 °C
Storage temperature	-20...+70 °C
Mounting	DIN-rail
Number of modules	8
Inputs/Outputs	16 per Add:io
Display	No
Indication type	LED for communication information
Dimensions, external (WxHxD)	140 x 136 x 46 mm
Weight (incl. packaging)	0.30 kg

Serial ports data

Port type	RS485
Default protocol	EFX
Supported protocols	EFX slave
Port isolation	Yes
Communication speed	115200 bps
Cable length	max 200 m
Cable connection	Push-in connectors

I/O data

Universal input c (Ulc)	AI: <ul style="list-style-type: none"> ✓ 0...10 V ✓ 800...1600 Ω (Pt1000, Ni1000 LG, Ni1000 DIN) ✓ 0...4000 Ω (Pt1000 ext, Ni1000 LG ext, Ni1000 DIN ext) DI: <ul style="list-style-type: none"> ✓ Sourcing input type, GND is ref
Universal input d (Uld)	AI: <ul style="list-style-type: none"> ✓ 0...10 V ✓ 0(4)...20 mA ✓ 800...1600 Ω (Pt1000, Ni1000 LG, Ni1000 DIN) ✓ 0...4000 Ω (Pt1000 ext, Ni1000 LG ext, Ni1000 DIN ext) DI: <ul style="list-style-type: none"> ✓ Sourcing input type, GND is ref
Universal output b (UOb)	AO: <ul style="list-style-type: none"> ✓ 0...10 V DC, short-circuit protected DO: <ul style="list-style-type: none"> ✓ 24 V AC/DC sinking MOSFET, DC short-circuit protected

Material

Material, housing	Polycarbonate (PC)
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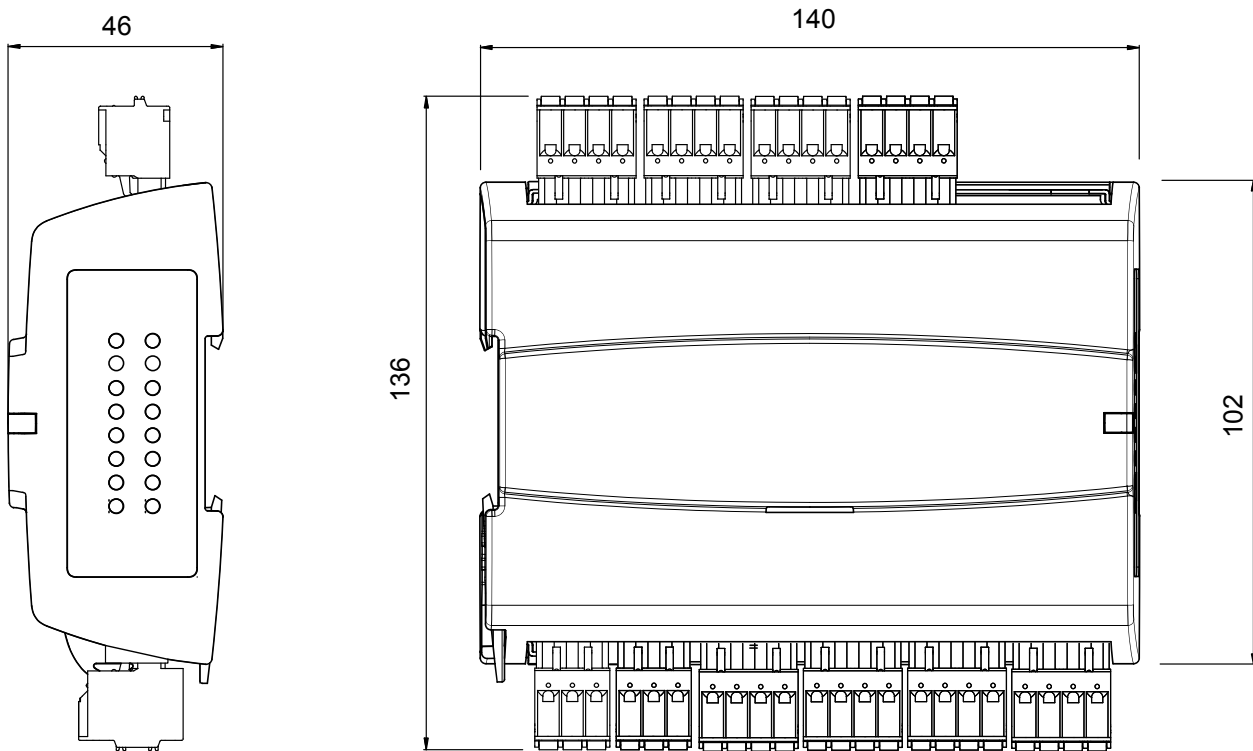


This product carries the CE-mark. More information is available at www.regincontrols.com.

Models

Article	Universal input c (Ulc)	Universal input d (Uld)	Universal output b (UOb)
IO-EC16Ulc-X	16	-	-
IO-EC16Uld-X	-	16	-
IO-EC16UOb-X	-	-	16

Dimensions



[mm]

Documentation

The product documentation can be downloaded from www.regincontrols.com. System customers can download additional documentation from our FTP server. Please contact Regin's sales department to get access.