Expansion units
Vido external IO units

The expansion units enable easy in-/outputs expansion of a system. They are fully compatible with Regin's Exigo, Corrigo and the products in the EXO range. They are also compatible with controllers of other brands using standard protocols like BACnet or Modbus.

- ✓ Powerful IO unit
- ✓ Several communication protocols
- ✓ Easy to install

Communication

The expansion units are capable of communicating via:
- BACnet MS/TP
- Modbus RTU
- EXOline via RS485
- BACnet/IP
- Modbus

TCP/IP

The built-in TCP/IP port makes it easy to communicate with systems spanning a very wide area. By using network infrastructure already in place for ordinary computers, installation costs can be greatly reduced.

Serial communication (RS485)

BACnet, Modbus and EXOline communication are also available via RS485.

Configuration

The expansion units are prepared for quick connection (4P4C modular connector) to a E3-DSP display that is used as a configuration tool.
The expansion units feature a factory-loaded application that enables both address and communication settings to be easily entered so they are ready for operation in short time.
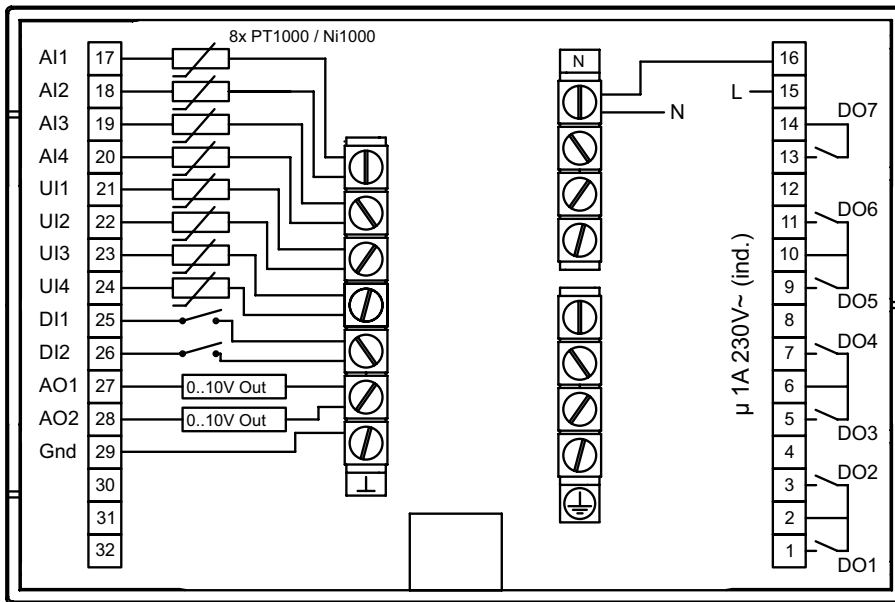
E3-DSP

For more information on E3-DSP, see the product sheet.

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Expansion units

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Mounting / Wiring

The expansion units can normally be mounted on a DIN-rail, in a cabinet door or directly on a wall.

17	AI1
18	AI2
19	AI3
20	AI4
21	UI1
22	UI2
23	UI3
24	UI4
25	DI1
26	DI2
27	UA1
28	UA2
29	Agnd
30	-
31	-
32	-

16	N
15	L
14	GDO
13	DO7
12	-
11	DO6
10	GDO
9	DO5
8	-
7	DO4
6	GDO
5	DO3
4	-
3	DO2
2	GDO
1	DO1

Expansion units

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Technical data

Supply voltage	230 V AC
Power consumption	7.5 VA
Ambient temperature	0...50 °C
Storage temperature	-20...+70 °C
Ambient humidity	Max. 95 % RH
Protection class	IP20 (IP40 when mounted in cabinet door)
Memory backup	Built-in long life battery gives long backup time of all settings including real time
Mounting	DIN-rail, cabinet or wall
Dimensions (WxHxD)	146.7 x 97.6 x 76.0 mm including terminals
Battery type	CR2032 replaceable Lithium cell
Battery life	Min. 8 years
Operating system	EXOrealC

Communication ports

TCP/IP	EXOline, Modbus, BACnet/IP
RS485	EXOline, Modbus, BACnet MS/TP

Inputs

Analogue inputs (AI)	PT1000 (-50…+150°C), Ni1000 DIN (-40…105°C), Ni1000 L&G (-40…120°C), Resistance (800…1600 Ω)
Digital inputs (DI)	For potential-free contacts
Universal inputs (UI)	Can be configured to function as either analogue input or digital input

Outputs

Universal analogue I/O (UA)	Configurable as output (0…10 V DC, 2…10 V DC, 10…0 V DC or 10…2 V DC, 8 bit D/A short-circuit protected) or input (0…10 V DC)
Digital outputs (DO)	7x relay, 230 V AC, 1 A load per relay, max 7 A total

Models

Article	TCP/IP	RS485	Display	AI	DI	UI	UA	DO	Total I/O:s
IO-V19MIXW-1-BEM	1	1	External	4	2	4	2	7	19

Accessories

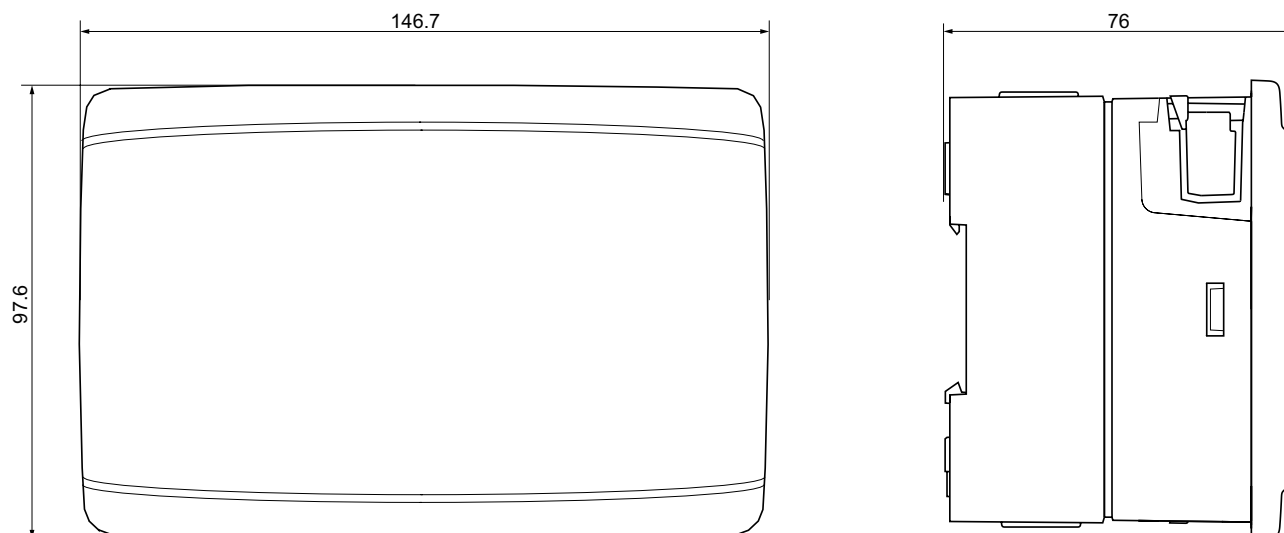| Article	Description
E3-DSP	External display
ESDP-K3	3 m cable for connecting an E3-DSP
ESDP-K10	10 m cable for connecting an E3-DSP

CE

Low Voltage Directive (LVD) standards: This product conforms to the requirements of the European Low Voltage Directive (LVD) 2014/35/EU through product standards EN 60730-1 and EN 60730-2-9.

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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Dimensions

All measurements in mm.

Product documentation

Document	Type
Instruction Vido expansion units	Instruction for installation of the Vido expansion units
Manual Expansion units	Manual for Ardo and Vido expansion units

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

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