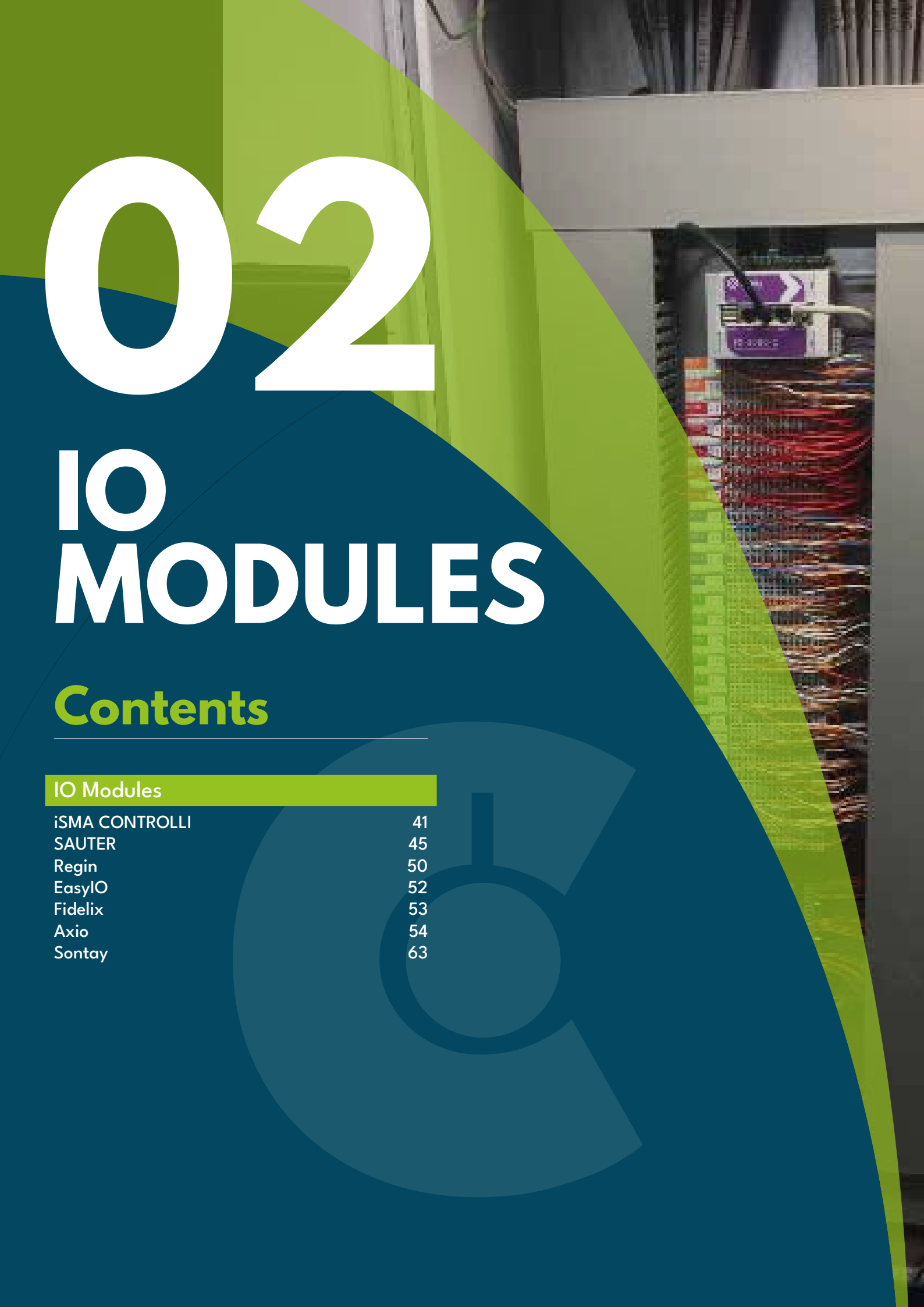

02

IO MODULES

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IO Modules

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iSMA CONTROLLI

Simplicity of integration and installation with truly open range of BACnet and Modbus I/O modules In order to ensure that data can be monitored and buildings can be controlled, it is essential to be able to convert from the analog to digital world. Whether it's a newly developed or an existing facility, iSMA CONTROLLI I/O modules allow for its digitalization with a wide range of products equipped with Modbus and BACnet. Enable better energy management, lower the cost of maintaining the building and ensure greater safety and comfort of its occupants.

iSMA CONTROLLI

MIX, MINI & MAX SERIES

Wide range of BACnet and Modbus I/O Modules
Group of 18 types of I/O modules from 4 to 38 inputs and outputs, suitable for local or distributed control of any building. Support for the most popular open protocols - BACnet and Modbus, both via RS485 and IP, makes them one of the most versatile products on the market.

Seamless Configuration
The protocol and other parameters can be configured in a matter of seconds thanks to onboard DIP and rotary switches.

Powering with USB Cable
The ability to be powered from a USB port facilitates local testing and a straightforward updating process.

iSMA Configurator
Portable software dedicated for device configuration and firmware upgrade.

Dedicated Niagara Framework Modules
Seamless integration of multiprotocol I/O in the Niagara Framework using a dedicated module.

Communication
BACnet MS/TP and Modbus RTU RS485 multiprotocol I/O modules are equipped with two most popular open protocols in building automation, BACnet and Modbus.

BACnet IP
Multiprotocol I/O modules are equipped with Building Automation and Control Network (BACnet) and are certified by the official BACnet Test Laboratories (BTL).

Modbus TCP/IP
Modbus is one of the most used protocols in industrial electronic devices.

Modbus TCP/IP to Modbus RTU/ASCII Gateway IP multiprotocol I/O modules can serve as a Modbus gateway with onboard COM1 port.

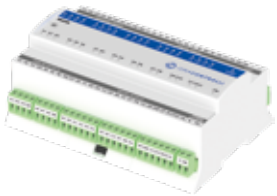
Web-based Configuration
Built-in web server enables not only a seamless device configuration without any additional tools, but also enables a preview of all I/O states and device specification, all with a password-protected access.

MIX SERIES I/O WITH RS485

Product Code	Product Information
iSMA-B-MIX18	I/O module with Modbus RTU/ASCII or BACnet MSTP communication. 1xRS485, 5xDI, 5xUI, 4xAO, 4xDO. Power supply 24 V AC/DC.
iSMA-B-MIX18-IP	I/O module with Modbus TCP/IP (with built in Modbus Gateway to RS485) or BACnetIP communication. 2xETH, 1xRS485, 5xDI, 5xUI, 4xAO, 4xDO. Power supply 24 V AC/DC.

MIX SERIES I/O WITH IP AND RS485

Product Code	Product Information
iSMA-B-MIX38	I/O module with Modbus RTU/ASCII or BACnet MSTP communication. 1xRS485, 12xDI, 8xUI, 6xAO, 12xDO. Power supply 24 V AC/DC.
iSMA-B-MIX38-IP	I/O module with Modbus TCP/IP (with built in Modbus Gateway to RS485) or BACnetIP communication. 2xETH, 1xRS485, 12xDI, 8xUI, 6xAO, 12xDO. Power supply 24 V AC/DC.



iSMA CONTROLLI

MINI SERIES I/O WITH RS485

Product Code	Product Information
iSMA-B-8I	I/O module with Modbus RTU/ASCII or BACnet MSTP communication. 1xRS485, 8xDI. Power supply 24 V AC/DC.
iSMA-B-8U	I/O module with Modbus RTU/ASCII or BACnet MSTP communication. 1xRS485, 8xUI. Power supply 24 V AC/DC.
iSMA-B-4I4O-H	I/O module with Modbus RTU/ASCII or BACnet MSTP communication. 1xRS485, 4xDI, 4xDO with hand operating. Power supply 24 V AC/DC.
iSMA-B-4U4O-H	I/O module with Modbus RTU/ASCII or BACnet MSTP communication. 1xRS485, 4xUI, 4xDO with hand operating. Power supply 24 V AC/DC.
iSMA-B-4U4A-H	I/O module with Modbus RTU/ASCII or BACnet MSTP communication. 1xRS485, 4xUI, 4xAO with hand operating. Power supply 24 V AC/DC.
iSMA-B-4O-H	I/O module with Modbus RTU/ASCII or BACnet MSTP communication. 1xRS485, 4xDO NC/NO max. 8 A @ 230 V AC/30 V DC relay with hand operating. Power supply 24 V AC/DC.
iSMA-B-4TO-H	I/O module with Modbus RTU/ASCII or BACnet MSTP communication. 1xRS485, 4xTO triac outputs max. 0,5 A @ 230 V AC /24 V AC with hand operating. Power supply 24 V AC/DC.

MINI SERIES I/O WITH IP AND RS485

Product Code	Product Information
iSMA-B-8I-IP	I/O module with Modbus TCP/IP (with built in Modbus Gateway to RS485) or BACnetIP communication. 1xETH, 1xRS485, 8xDI. Power supply 24 V AC/DC.
iSMA-B-8U-IP	I/O module with Modbus TCP/IP (with built in Modbus Gateway to RS485) or BACnetIP communication. 1xETH, 1xRS485, 8xUI. Power supply 24 V AC/DC.
iSMA-B-4I4O-H-IP	I/O module with Modbus TCP/IP (with built in Modbus Gateway to RS485) or BACnetIP communication. 1xETH, 1xRS485, 4xDI, 4xDO with hand operating. Power supply 24 V AC/DC.
iSMA-B-4U4O-H-IP	I/O module with Modbus TCP/IP (with built in Modbus Gateway to RS485) or BACnetIP communication. 1xETH, 1xRS485, 4xUI, 4xDO with hand operating. Power supply 24 V AC/DC.
iSMA-B-4U4A-H-IP	I/O module with Modbus TCP/IP (with built in Modbus Gateway to RS485) or BACnetIP communication. 1xETH, 1xRS485, 4xUI 4xAO with hand operating. Power supply 24 V AC/DC.
iSMA-B-4O-H-IP	I/O module with Modbus TCP/IP (with built in Modbus Gateway to RS485) or BACnetIP communication. 1xETH, 1xRS485, 4xDO NO/NC max. 8 A @ 230 V AC/30 V DC relay with hand operating. Power supply 24 V AC/DC.
iSMA-B-4TO-H-IP	I/O module with Modbus TCP/IP (with built in Modbus Gateway to RS485) or BACnetIP communication. 1xETH, 1xRS485, 4xTO triac outputs max. 0,5 A @ 230 V AC /24 V AC triac with hand operating. Power supply 24 V AC/DC.

MAX IO

iSMA CONTROLLI

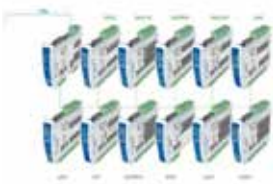
Product Code	Product Information
iSMA-B-12O-H	Digitalise buildings with reduced engineering time using the powerful 12 digital outputs module, which works as a remote I/O oover the serial port with open protocols: BACnet MS/TP, and Modbus RTU/ASCII. Open protocols standard offers the versatility of installing the modules in both new and existing facilities, whether it is a system expansion or a retrofit. The maximum number of the most popular types of inputs or outputs allows the module to be a versatile controller extension, whether in a small or large facility.
iSMA-B-12O-H-IP	Digitalise buildings with reduced engineering time using the powerful 12 digital outputs module, which works as a remote I/O over IP with open protocols, BACnet IP and Modbus TCP/IP. Open protocols standard offers the versatility of installing the modules in both new and existing facilities, whether it is a system expansion or a retrofit. The maximum number of the most popular types of inputs or outputs allows the module to be a versatile controller extension, whether in a small or large facility.
iSMA-B-24I	Digitalise buildings with reduced engineering time using the powerful 24 digital inputs module, which works as a remote I/O over the serial port with open protocols: BACnet MS/TP, and Modbus RTU/ASCII. The module is designed for data monitoring in data centers and HVAC applications. Open protocols standard offers the versatility of installing the modules in both new and existing facilities, whether it is a system expansion or a retrofit. The maximum number of the most popular types of inputs or outputs allows the module to be a versatile controller extension, whether in a small or large facility.
iSMA-B-24I-IP	Digitalise buildings with reduced engineering time using the powerful 24 digital inputs module, which works as a remote I/O over IP with open protocols, BACnet IP, and Modbus TCP/IP. The module is designed for data monitoring in data centers and HVAC applications. Open protocols standard offers the versatility of installing the modules in both new and existing facilities, whether it is a system expansion or a retrofit. The maximum number of the most popular types of inputs or outputs allows the module to be a versatile controller extension, whether in a small or large facility.

MODBUS IO

SfAR-S slim Modbus I/O modules offer 6-16 inputs/outputs in 12 combinations, with optoisolation between components for reliable performance. They support Modbus RTU/ASCII and can integrate into Modbus TCP/IP networks via the SfAR-S-ETH module. Installation is simplified with the Quick Connector system, connecting up to 10 modules using the SfAR-S-LINK cable.

The SfAR-1M series features compact modules with 2 to 4 I/Os, ideal for distributed systems. These modules connect non-Modbus devices to Modbus networks and include status LEDs for I/Os, power supply, and RS485 communication. Configuration is easy with the free SfAR Configurator software and a built-in mini USB port for primary setup without additional power supply.

Product Code	Product Information
SFAR-1M-1AI1DO	Modbus I/O module with 1 analog input and 1 digital output.
SFAR-1M-1TI1DO	Modbus I/O module with 1 temperature input and 1 digital output.
SFAR-1M-2DI1AO	Modbus I/O module with 2 digital inputs and 1 analog output.
SFAR-1M-2DI2DO	Modbus I/O module with 2 digital inputs and 2 digital outputs.
SFAR-1M-4DI	Modbus I/O module with 4 digital inputs, PNP or NPN type.
SFAR-1M-4DI-M	Modbus I/O module with 4 digital inputs, PNP or NPN type. Built-in FRAM memory for saving counters.
SFAR-1M-4DO	Modbus I/O module with 4 digital outputs, PNP type.
SFAR-S-16DI	Modbus I/O module with 16 digital inputs, PNP or NPN type.
SFAR-S-16DI-M	Modbus I/O module with 16 digital inputs, PNP or NPN type. Built-in FRAM memory for saving counters.



iSMA CONTROLLI

MODBUS IO

Product Code	Product Information
SFAR-S-16DO	Modbus I/O module with 16 digital outputs, PNP type.
SFAR-S-16RO	Modbus I/O module with 16 relay outputs.
SFAR-S-6RO	Modbus I/O module with 6 NC/NO relay outputs.
SFAR-S-6TI	Modbus I/O module with 6 temperature inputs.
SFAR-S-8AI2DO	Modbus I/O module with 8 analog inputs and 2 digital outputs. Power supply 12-24 V DC.
SFAR-S-8AO	Modbus I/O module with 8 analog outputs.
SFAR-S-8DI8DO	Modbus I/O module with 8 digital inputs and 8 digital outputs.
SFAR-S-8DI8RO	Modbus I/O module with 8 digital inputs and 8 relay outputs.
SFAR-S-8TO	Modbus I/O module with 8 triac outputs.
SFAR-S-ETH	Modbus TCP/IP to Modbus RTU/ASCII gateway with 4 digital inputs and 3 relay outputs.

WIRELESS I/O

Product Code	Product Information
iSMA-B-W0202	Wireless Bridge for Modbus RTU/ASCII. 1xRS485, 2xSI, 2xDO. Power supply 24 V AC/DC.
iSMA-B-WEXTA	iSMA-B-W0202 optional antenna - signal gain 5 dBi.
iSMA-B-WEXT2	An extension cable 2-meter length for wireless modules.
iSMA-B-WEXT5	An extension cable 5-meter length for wireless modules.

GATEWAYS

Product Code	Product Information
iSMA-B-MG-IP	Meter Gateway with built-in M-Bus gateway (power supply for up to 60 devices) and Modbus TCP/IP to Modbus RS485 gateway. 1x RS485, 1xETH, 1xM-Bus. Power supply 24 V AC/DC.

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SAUTER MODULO 6 CONNECTION MODULES

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The SAUTER modulo 6 connection modules offer more flexibility in the cabinet installation (modu602-LC) and more freedom for a decentralised topology (modu612-LC). The modu601-LC ensures the functionality of the I/O modules if the operation of the automation station is interrupted.

EY6LC01: MODULE FOR SEPARATED I/O MODULE SUPPLY, MODU601-LC

Features

- Part of the SAUTER modulo 6 system family
- Enables separate supply between automation station and I/O modules
- Power supply of I/O modules and connected LOI units (Local Override and Indication Device)
- Allows extension to up to 24 I/O modules
- Enables simple wiring tests of the I/O modules without the station, together with modu600-LO on the I/O modules

Product Code	Description
EY6LC01F001	modu601-LC Module for separated IO-Modules pwr sply
EY6LC02F001	modu602-LC Coupling Kit for Cabinet IO-Modules

EY6LC12: IP COUPLER FOR I/O MODULES, WITH WEB SERVER, MODU612-LC

Features

- Part of the SAUTER modulo 6 system family
- Enables decentralised installation and connection of the modulo 6 COM and IO modules with the automation station via IP network
- Locally expandable with up to 10 modules
- Two RJ45 connections switched for daisy chain
- Integrated web server for local commissioning
- Bluetooth interface for mobile commissioning and maintenance
- User administration and user identification (web server)

Product Code	Description
EY6LC12F011	IP coupler for I/O modules, with web server

SAUTER MODULO 6 I/O MODULES

SAUTER I/O modules are compatible with the modulo 6 series and are used to capture digital and analogue signals in HVAC installations. They control devices such as contactors, relays and valve actuators.

Product Code	Description
EY6IO30F001	16 x DI/CI Inputs IO-Module
EY6IO31F001	8 x UI(DI/CI/AI) + 8 x DI/CI IO-Module
EY6IO50F001	6 x Relay (2A)Outputs IO-Module
EY6IO70F001	8 x DI/CI/DO(OC) + 8 x DI/CI IO-Module
EY6IO71F001	8 x AO + 8 x DI/CI IO-Module
EY6LC01F001	Module for separated IO-Modules pwr sply
EY6LC02F001	Coupling Kit for Cabinet IO-Modules
EY6LO00F001	Local Operation-Indication for IO-Module
EY6RT30F001	BACnet Router& Hub, B/SC <-> B/IP

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EY6IO72: 4 × AO, 4 × DO(OC), 4 × UI (DI/CI/AI) I/O MODULE, MODU672-IO

Features

- Part of the SAUTER modulo 6 system family
- Plug-in element for extending the modu660AS and modu680AS automation stations and modu612LC link coupler
- Activation with a standard signal (0(2)...10 V, 0(4)...20 mA) in operational systems, such as HVAC engineering
- Four universal inputs, four analogue outputs and four digital outputs
- Receiving digital inputs (alarm/status) and analogue inputs (Ni/Pt1000, U/I/R/Pot) in operational systems
- Power supply from automation station (modu6**-AS), link coupler (modu612LC) or supply module (modu601LC)
- Can be equipped with a local operating and indicating unit (modu600LO)

Product Code	Description
EY6IO72F001	4 × AO, 4 × DO(OC), 4 × UI (DI/CI/AI) I/O module

REMOTE I/O MODULE, ECOLINK510...512

Optimum adjustment to applications by means of module technology. Less wiring needed.

Features

- Part of the SAUTER EY-modulo 5 system family
- Regulation, control, monitoring and optimisation of operational systems, e.g. room automation or HVAC engineering
- Remote I/O module for ecos500, 504, 505
- Communicative connection of actuators to automation stations
- Can be located up to 500m from automation stations

Product Code	Description
EY-EM510F001	Remote I/O module, 24 V~, 3 relays, 3 Triacs
EY-EM511F001	Remote I/O module, 24 V~, 3 Triacs
EY-EM512F001	Remote I/O module, 24 V~, 2 Triacs

REMOTE I/O MODULE, ECOLINK514, 515 - EY-EM 514, 515

Regulation, control, monitoring and optimisation of operational systems, e.g. room automation or HVAC engineering, in combination with an automation station.

Features

- Part of the SAUTER EY-modulo 5 system family
- Remote I/O module for ecos500, 504, 505
- Activation of actuators for heated/chilled ceilings, recirculated air and fan coil units, and window blinds
- Communicative, digital connection of actuators and sensors to automation stations
- Inputs for presence detectors, temperature sensors, analogue sensors and window contacts
- Can be located up to 500 m from automation stations

Product Code	Description
EY-EM510F001	Remote I/O module, 24 V~, 3 relays, 3 Triacs
EY-EM511F001	Remote I/O module, 24 V~, 3 Triacs
EY-EM512F001	Remote I/O module, 24 V~, 2 Triacs

REMOTE I/O MODULE, ECOLINK522, 523 - EY-EM 522, 523

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Regulation, control, monitoring and optimisation of operational systems, e.g. room automation or HVAC engineering, in combination with an automation station

Features

- Part of the SAUTER EY-modulo 5 system family
- Remote I/O module for ecos500, 504, 505 and modu521
- Switching and dimming of up to 4 lamps
- Can be located up to 500 m from the automation station

Product Code	Description
EY-EM522F001	Remote I/O module, 230 VAC4 relays, 4 DIM
EY-EM523F001	Remote I/O module, 230 VAC4 DIM

REMOTE I/O MODULE, ECOLINK527 - EY-EM 527

Regulation, control, monitoring and optimisation of operational systems, e.g. room automation or HVAC engineering, in combination with an automation station

Features

- Part of the SAUTER EY-modulo 5 system family
- Communicative, digital connection of actuators and sensors to automation stations
- Controlling ventilation dampers, motorised windows and blinds
- Inputs for positional feedback, presence detectors, window contacts
- Remote I/O module for ecos500, 504, 505
- Universal inputs for temperature measurement, 0-10 V signals, potentiometer
- Meter inputs for recording energy pulses up to 10 Hz
- Can be located up to 500 m from automation stations

Product Code	Description
EY-EM527F001	Remote I/O module, 230 VAC4 relays, 4 UI, 4 DI(10Hz)

I/O MODULE, DIGITAL INPUTS, MODU531 - EY-IO 531

SAUTER EY-modulo 5 technology: modular, fast and universal

Features

- Part of the SAUTER EY-modulo 5 system family
- Plug-in element for extending the modu524/525 automation station (AS)
- Receiving digital inputs (alarm/status) in operational systems, e.g. in HVAC engineering
- 16 digital inputs
- Power supply of automation stations
- Direct labelling on the front
- Can be equipped with a local indicating unit

Product Code	Description
EY-IO531F001	I/O module, digital inputs, modu531

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More from SAUTER EY-modulo 5

Product Code	Description
EY-IO532F001	modu532IO module 16UI
EY-IO533F001	I/O-Module 8UI/4DI/4S0
EY-IO534F001	modu534: IO module 8U/I galvanic seperation
EY-IO550F001	I/O: Output module modu5506,DO(relays)
EY-IO551F001	I/O: Output module modu551,16 DO(open collector)
EY-IO570F001	I/O:In/Out module modu570,8UI/4AO (Universal/Analog)
EY-IO571F001	modu571IO module 16 DI/DO
EY-IO572F001	modu572IO-module 8UI/4AO/3DI

SAUTER MODULO POWER SUPPLY UNITS

Efficient switched-mode power supply units for supplying power to automation stations, I/O modules and field devices in building automation. Optimal for use with the SAUTER ecos and modulo 6 system families.

Features

- Variable input voltage
- Output protected against short circuit
- Flat DIN-rail housing for small distribution box

Overview of power supply units

Type designation	EY-PS031F011	EY-PS031F021	EY-PS031F041
Nominal rating	30 W	60 W	100 W
Nominal current	1.25 A	2.5 A	4.16 A
Efficiency	Typ. 86.5%	Typ. 91.7%	Typ. 92.1%
Dimensions W × H × D	36 × 94 × 68 mm	52.5 × 95 × 68 mm	72 × 93 × 68 mm
Weight	0.13 kg	0.21 kg	0.24 kg

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SAUTER COMMUNICATION MODULES

The devices of the SAUTER moduNet series enable the novaNet bus system to be integrated into parent IT networks. A direct Ethernet interface and an RS-232 serial port are provided for this purpose.

VANET-ETHERNET INTERFACE, MODUNET292 - EY-BU 292

SAUTER EY-modulo 2 integrated into established IP technology.

Features

- Part of the SAUTER EY-modulo 2 system family
- Bus access device for novaNet system bus withEthernet interface
- To integrate novaNet stations (EY3600, EY-modulo 2) into IP networks based on Ethernet (LAN/WAN)
- For SAUTER CASE Suite applications
- To download programmes onto the stations
- For SAUTER novaPro visualisations
- For remote monitoring via the internet
- TCP/IP communication
- Communication with two-wire novaNet system bus
- RJ-45 plug for Ethernet 10 Base-T (10 Mbit/s)
- Fixed IP addressing
- RS-232 interface for parameterisation and updating
- Five LEDs for Error, novaNet Send, Power, Activity, Link

Product Code	Description
EY-BU292F001	novaNet-Ethernet moduNet292,DIN rail installation

ROUTER, NOVANET291 - EYZ 291

SAUTER novaNet communication, technology that has proven itself thousands of times over.

Features

- Part of the EY-modulo 2 and EY3600 system family
- Bus access device for novaNet system bus with RS-232 interface
- For configuring EY-modulo 2 and EY3600 stations with SAUTER CASE applications
- For management-level software and all SAUTER novaPro visualisations and novaNet OPC servers
- Direct communication from novaNet stations to PC with a serial connection
- Remote access with router function via RS-232 modem
- Remote monitoring in routel mode via RS-232 modem (i.e. automatic uploading of events)
- Communication using two-wire novaNet system bus
- Communication with RS-232-compatible pairs of devices (dial-up modem, ISDN adapter, electronic surge protector, OWG converter, wireless modem etc.)
- 1 MB buffer for separating the time characteristics of novaNet and RS-232 interface

Product Code	Description
EYZ291F001	novaNet router

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REGIN

REGIN IO MODULES

Regin's expansion units and I/O modules offer the possibility to expand the freely programmable controllers EXOclever and EXOcompact.

Integration of the expansion units and I/O modules into an EXO system is intended for advanced system integrators only, as it demands a deep knowledge of the EXO system. Up to 32 expansion units and I/O modules can be connected but the limit is set by the system integrator and the application.

BTL

BACnet Modbus EXOline

REGIN EXPANSION UNITS

The expansion units enable easy in-/outputs expansion of a system. They are fully compatible with all other products in the EXO range as well as other brands using standard protocols like BACnet or Modbus.

ARDO EXPANSION UNIT WITH 15 OR 28 I/OS

The expansion units enable easy inputs/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.

Features

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

Communication

The expansion units can communicate via:

BACnet MS/TP / Modbus RTU
EXOline via RS485 / BACnet/IP / Modbus

Product Code	Description
IO-A15MIXW-3-BEM	Expansion unit Ardo, 4 AI, 4 DI, 3 AO, 4 DO, RS485, Ethernet
IO-A28MIXW-3-BEM	Expansion unit Ardo, 4 AI, 8 DI, 4 UI, 5 AO, 7 DO, RS485, Ethernet

VIDO EXPANSION UNIT WITH 19 I/OS

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.

Features

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

Communication

The expansion units can communicate via:

BACnet MS/TP / Modbus RTU
EXOline via RS485 / BACnet/IP / Modbus

Product Code	Description
IO-V19MIXW-1-BEM	Expansion unit Vido, 4 AI, 2 DI, 4 UI, 2 AO, 7 DO, RS485, Ethernet

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ADD:IO, ADDITIONAL I/O UNITS

Additional I/O unit for the freely programmable controllers EXOcompact and EXOclever. 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.

Features

- Plug'n play with Regin's system solution
- Add I/Os next to the controller, or in another cabinet up to 300 m away
- Easy to increase the amount of I/Os
- Ideal to combine with other modules in the Add:io series

Product Code	DIb	DOe	UId	UOb	Power Consumption
IO-EC16DOE-X	-	**16**	-	-	**7.8 VA / 3.5 W**
IO-EC32DIB-X	**32**	-	-	-	**7.8 VA / 3.5 W**
IO-EC16UID-X	-	-	-	-	**4.5 VA / 1.8 W**
IO-EC16UOB-X	-	-	-	-	**7.8 VA / 3.5 W**
IO-EC8UID8UOB-X	-	-	**8**	**8**	**7.8 VA / 3.5 W**

DISTRIBUTED I/O MODULE WITH 7 OR 10 INPUTS/OUTPUTS

Small distributed I/O module for expanding Regin's programmable controllers EXOflex, EXOcompact and EXOdos. Can be adressed and communicate via EXOline.

Features

- Cost-efficient I/O expansion for EXO controllers
- I/O distribution via RS485
- Off-line functions in case of communication loss
- Can handle pulses on inputs and outputs
- Built-in temperature sensor
- Special condensation input available

Product Code	Type	Description
IO-RU-10	System HW IO/Add:IO Room	Expansion unit RU, 1 AI, 2 DI, 1 UI, 4 DO, 2 UO, RS485
IO-RU-7	System HW IO/Add:IO Room	Expansion unit RU, 1 AI, 2 DI, 1 UI, 3 UO, RS485

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REGIN

MORE FROM REGIN'S DISTRIBUTED I/OS RANGE

IO module for expanding Regin's programmable controllers EXOflex, EXOcompact and EXOdos.

Features

- Simple wiring
- Easy to install in a standard casing

Product Code	Type	Description
IO-16AI	System HW IO/Add:IO Compact	Expansion unit, 16 AI, RS485
IO-16DI	System HW IO/Add:IO Compact	Expansion unit, 16 DI, RS485
IO-16DO-M	System HW IO/Add:IO Compact	Expansion unit, 16 DO Relay 230 V ~ 1 A (ind.), RS485, manual switches
IO-4X4-M	System HW IO/Add:IO Compact	Expansion unit, 4 AI, 4 DI, 4 AO, 4 DO Relay 230 V ~ 1 A (ind.), RS485
IO-8DO8AI-M	System HW IO/Add:IO Compact	Expansion unit, 8 AI, 8 DO Relay 230 V ~ 1 A (ind.), RS485, Man switch
IO-8DO8AO-M	System HW IO/Add:IO Compact	Expansion unit, 8 AO, 8 DO Relay 230 V ~ 1 A (ind.), RS485, Man switch

EasyIO®

FC, FD SERIES AND ACCESSORIES

Product Code	Product Information
EasyIO-FC-20	The EasyIO FC-series is aimed at affordable canned solutions for stand alone applications, such as Roof Top Units, Fan Coils, AHUs, package units etc
EasyIO-FD-20i	The FD-20i provides input point expansion capacity for all FS and FW series controllers
EasyIO-FR-02	For floating control, add the optional FR-02 module, a relay module that can be din rail mounted. It allows 1 analog input from a controller to provide floating control via two built-in relays

IBC stock over 2500 products ready for immediate delivery

2005

Serving the (BMS & HVAC) Industry since 2005

FIDELIX IO MODULES

Connect, measure and control – reliable I/O modules for digital and analogue signals.

Fidelix I/O modules communicate using Modbus RTU over and RS485 connection, making them also ideally suited for use as an extension module to each, every, and any third party BMS controller.

Product Code	Product Information
AI-8-C	8 channel analogue input module. Used to read input signals from active and passive sensors. Its 8 individually configurable channels can read data from resistive sensors, current loops, voltage messages, and digital indications. Poll the module from a serial Modbus master FX-controller to get reliable, accurate, precise and fast readings from your field equipment.
AO-8-C	The 8 channel analogue output module is used to generate voltage control signals. Its 8 individually configurable channels are short-circuit protected, can send out precise voltages from 0 to 10 V, and have parametrisable safeguard values in case of a rupture in communication from a serial Modbus master FX-controller.
DI-16-C	The 16 channel digital input module is used to read and detect digital signals for indication, alarm, or impulse measurement purposes. Each channel can be individually configured, and has a green and red LED to show its current status. Connect the module to a serial Modbus master FX-controller to get reliable and fast indications from your field equipment.
DO-8-C	The 8 channel digital output module has 8 changeover relays, capable of taking on a maximum load of 2A at 24 VAC, or 6A at 12 VDC. Each channel has a LED indicating its current status. Control loops with a load up to 1 A at 30 volts from each channel and swiftly command any device from a serial Modbus master FX-controller.
DOOC-16-C	The 16 channel digital output module has 16 open collector outputs, each capable of taking on a maximum load of 100 mA. Each channel has a green and red LED indicating its current status, and a builtin safety feature to deactivate a channel when power leakage is detected. The module can control 16 high power relays and swiftly command any device from a serial Modbus master FX-controller
TRIAC-8-C	The 8 channel Triac module is used to send control signals to Triac field equipment. Its 8 individually configurable channels can send out control signals between 0 and 100%, and each have parametrisable safeguard values in case of a rupture in communication from a serial Modbus master FX-controller
AI-8	The 8 channel input module is used to read input signals from active and passive sensors. Its 8 individually configurable channels can read data from resistive sensors, current loops or voltage messages, and digital indications. Selection is done using the physical jumpers on the module. Connect the module to one of our outstations to get reliable, accurate, precise and fast readings from your field equipment.
AO-8	The 8 channel output module is used to generate voltage controlling signals. Its 8 individually configurable channels are all short circuit protected, have customisable minimum and maximum voltage outputs, and have configurable safeguard values in case of a break in communication. Connect the module to one of our outstations to control your field equipment fast and accurately.
DI-16	The 16 channel digital input module is used to read and detect digital signals for indication, alarm, or impulse measurement purposes, or to detect whether or not a cable is still intact (security loops). Each channel can be individually set, and has a green and red LED to show the current status of each point as soon as you see the module. Connect the module to one of our outstations to get fast, accurate and precise readings
O-8	Each of the 8 channels of the digital output module with 8 changeover type relays, can be set to send programmed values, or manually switched, overwriting this programmed value. Should there be an unforseen interruption in the communication towards the module, each relay can preserve its current state or switch to a pre-programmed status. Each relay has an LED, indicating its current status. Use the DO-8 module to control devices up to 250 Volts.
COMBI-36	Combined I/O module, 20 inputs, 16 outputs.

AXIO ANNICOM

Annicom has been established as a design and build company for the Industrial Controls, HVAC, and Building Automation Industry for more than 25 years.

Alongside its own range of high quality products under the AXIO brand name it also designs and manufactures controls for many of the industry giants on an OEM basis. All components used in Annicom's production facility meet its stringent Quality Assurance guidelines, are RoHS & CE compliant where required, and are fully tested before leaving the factory.

DIGITAL INPUT MULTIPLEXER

Product Code	Product Information
HC-DIM4-MI	4 x digital input (VFC) multiplexer 0-10VDC output Din Rail module trend compatible output with built in offset (direct equivalent to trend) and other input versions.
HC-DIM6-MI	6 x digital input (VFC) multiplexer 0-10VDC output Din Rail module trend compatible output with built in offset (direct equivalent to trend) and other input versions.

SINGLE RELAY MODULE

Product Code	Product Information
HC-RM1F	Single relay Din Rail module with fixed switch point. 0-10VDC input 24VAC powered fixed switchpoint at 5VDC.

SINGLE RELAY MODULE C/W ADJUSTMENT

Product Code	Product Information
HC-RM1AB	adjustment and also buffered output. 0-10VDC input 24VAC powered.

RESISTANCE INPUT MODULES

Product Code	Product Information
HC-RIM135	Resistance input module 135 OHMS to 0-10VDC. Powered from a 24VAC/DC supply. LED indicators.
HC-RIM-1K	Resistance input module 1,000 (1K) to 0-10VDC. Powered from a 24VAC/DC supply. LED indicators.

TWO RELAY MODULE

Product Code	Product Information
HC-RM2T	2 stage relay module with timer. Din Rail module raise/lower, high/low & binary 0-10VDC input. 24VAC/DC powered.

THREE RELAY MODULE

Product Code	Product Information
HC-RM3M	3 stage relay Din Rail module (0-10VDC input) adjustable time delay. 24VAC/DC powered.

FOUR RELAY MODULE

Product Code	Product Information
HC-RM4M	4 stage relay Din Rail module (0-10VDC input). 24VAC/DC powered.

FOUR RELAY MODULE C/W ADJUSTMENT

Product Code	Product Information
HC-RM4AB	4 stage relay module with adjustable switchpoints. On and off switch points for each relay. (0-10VDC input) 24VAC/DC powered.

SIX RELAY MODULE

Product Code	Product Information
HC-RM6M	6 stage relay Din Rail module (0-10VDC input). 24VAC/DC powered.

FAN SPEED RELAY MODULE

Product Code	Product Description	Product Information
HC-FRM3-24	Fan Speed Controller	Fan speed relay module either in 24V or 230V versions. Designed for fan switching applications.
HC-FRM3-230	Fan Speed Controller	Fan speed relay module either in 24V or 230V versions. Designed for fan switching applications.

IP65 ENCLOSURE AVAILABLE ON REQUEST

DUAL ANALOGUE OUTPUT MODULE

Product Code	Product Information
HC-DAOM	Dual analogue output module, converts a 0-10VDC or 2-10VDC input signal to 2 x 0-10VDC or 2 x 2-10VDC output signals. 24VAC/DC powered.

AVERAGING MODULE

Product Code	Product Description	Product Information
HC-AMMM	4 Ch Min, Max And Averaging Module	Provides the average minimum,maximum and middle values of the selected 0-10V inputs, up to 5 inputs can be selected. 24VAC/DC powered.

ANALOGUE INPUT MULTIPLEXER

Product Code	Product Description	Product Information
HC-VMUX	4ch Analogue Input Multiplexer	Multiplexes four 0-10V analogue signals on to two analogue lines. this doubles the number of analogue inputs available. 24VAC/DC powered.

ANALOGUE DE-MULTIPLEXER

Product Code	Product Description	Product Information
HC-VDEMUX	4 Ch Analogue Demultiplexer	Demultiplexis one switched 0-10V analogue input to four analogue outputs. This requires two analogue lines one for the switched 0-10V and one for the output selection, this doubles the number of analogue outputs available. 24VAC/DC powered.

TRANSFORMERS

Product Code	Product Information
HC-TXD 6VA	HC-TXD range – 230V – 24VAC din rail transformers. Various VA ratings. Listed below transformers fitted with fuses on both the input and the output.
HC-TXD 25VA	HC-TXD range – 230V – 24VAC din rail transformers. Various VA ratings. Listed below transformers fitted with fuses on both the input and the output.
HC-TXD 30VA	HC-TXD range – 230V – 24VAC din rail transformers. Various VA ratings. Listed below transformers fitted with fuses on both the input and the output.
HC-TXD 60VA	HC-TXD range – 230V – 24VAC din rail transformers. Various VA ratings. Listed below transformers fitted with fuses on both the input and the output.

Product Code	Product Information
HC-SEM62.1	SEM62 range – 230V – 24VAC power supply din rail module. LED indication on secondary power supply. Integral self re-setting primary fuse, secondary power supply.
HC-SEM62.2	SEM62 range – 230V – 24VAC power supply din rail module. LED indication on secondary power supply. Integral self re-setting primary fuse, secondary power supply.

RAISE LOWER CONTROL MODULE

Product Code	Product Information
HC-ARL	Raise lower control module. Converts a 0-10V input signal into a raise lower relay output pair. 24VAC/DC powered.

PHASE CUT MODULE

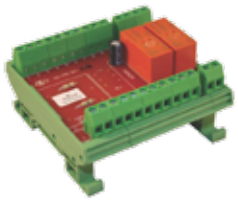
Product Code	Product Information
HC-PCM1-120I	120VA phase-cut output Din Rail module. To convert a 0-10V input signal to drive a 0-20V phase cut output.

PHASE CUT MODULE

Product Code	Product Information
HC-PCM2-30I	Dual 30VA phase-cut output Din Rail module. To convert 1 or 2 0-10VDC contact input signals to 1 or 2, 0-20V phasecut outputs.

ALARM INTEGRATOR

Product Code	Product Information
HC-MA10-24	Alarm integration modules 240V or 24VAC/DC available in both 10 channel and 20 channel versions. Units provide a relay output in the event of an alarm signal appearing on any one or more inputs.
HC-MA10-230	
HC-MA20-24	
HC-MA20-230	



ANALOGUE BUFFER & CONVERSION MODULE

Product Code	Product Information
HC-ABC	Analogue buffer conversion module, designed to convert and buffer an analogue input signal to a voltage output. 24VAC/DC powered.

RAISE/LOWER TO ANALOGUE MODULE

Product Code	Product Information
HC-RLA-AC	Isolated raise / lower to analogue convertor. Converts a raise-lower input signal into a 0-10V analogue output.

COMMISSIONING TOOL

Product Code	Product Information
HC-REF-V1	Provides 0-10VDC and 4-20MA outputs in a switch selectable range. The unit is powered by a 24V plug top PSU (included with the unit). The unit can be used to test actuators on bench top prior to installation.

TRANSFORMERS

Product Code	Product Information
HC-PS-DR-45-24	24VDC 1AMP power supply Din Rail module. 230V input - 24V DC out. LED power on indicator.
HC-PS-24-24-1-C (COMMON 0V)	24VAC to 24VDC 1AMP convertor. A low cost power supply providing a regulated 24V DC output from a 24V input - Common OV.
HC-PS-24-24-1-F	24VAC to 24VDC 1AMP convertor. A low cost power supply providing a regulated 24VDC output from a 24V input - Floating OV.

CONVERSION MODULE

Product Code	Product Information
HC-VI	Is designed to convert a 0-10VDC input signal to a 4-20MA current output. Unit is powered by a 24VAC/DC and can power a current loop signal.

CURRENT SPLITTER MODULE

Product Code	Product Description	Product Information
HC-CSM-2	ANALOGUE TO 2 X 4-20MA	Current splitter module designed to split an analogue input to 2 x 4-20MA current outputs. Powered by 24VAC/DC and can power a current loop signal.
HC-CSM-3	ANALOGUE TO 3 X 4-20MA	
HC-CSM-4	ANALOGUE TO 4 X 4-20MA	

WINDOW ACTUATOR CONTROLLER

Product Code	Product Description	Product Information
HC-WAC	3 Channel window actuator controller with lcd display	3 channel window controller providing timed forward/reverse outputs to open/close 2 wire DC window actuators.

VOLTAGE RESCALING MODULE

Product Code	Product Information
HC-VSR	Voltage splitter and reference module takes 1 x 0-10VDC and splits and buffers the signal to give 3 x 0-10V outputs. The module also includes an adjustable reference output, factory set to 10V.

SINGLE PHASE FAN SPEED CONTROLLER

Product Code	Product Information
HC-FC-8	New compact single phase trial fan speed controller. 8AMP rated 230V powered for regulation of single phase AC motors.

KYLAND ETHERNET SWITCHES

Product Code	No. of Ports	Product Information
OPAL5-E-5T-LV-LV	5	• 5, 8 & 16 port RJ45 fast Ethernet switches • Unmanaged (plug & play) • Supply voltage 18-30VAC/12-48VDC • IP30 aluminium DIN rail mount housing • Dual LED power supply indication & full LED link/ACT indication • Operating temperature -10°C to +60°C
OPAL8-E-8T-LV-LV	8	
OPAL20-E-16T-LV-LV	16	
OC-7N1005	5	The OC-7N1005 is a 5 port 10/100 unmanaged industrial ethernet switch with a dual-redundant supply range of 9-56Vac/dc. It is both DIN rail mounted and wall / back plate mounted with its reversible clip which comes attached to every product. Protection IP40.
OC-7N1008	8	The OC-7N1008 is a 8 port 10/100 unmanaged industrial ethernet switch with a dual-redundant supply range of 9-56Vac/dc. It is both DIN rail mounted and wall / back plate mounted with its reversible clip which comes attached to every product. Protection IP40.
OC-7N1016	16	The OC-7N1016 is a 16 port 10/100 unmanaged industrial ethernet switch with a dual-redundant supply range of 9-56Vac/dc. It is both DIN rail mounted and wall / back plate mounted with its reversible clip which comes attached to every product. Protection IP40.

RELAYS & BASES

Product Code	Voltage	No. of Poles	Product Information
RM1-0001-12DS-S*	12VDC	1	RM1 Series - Relay C/W Base
RM1-000T-24A	24V	1	RM1 Series - Relay C/W Base
RM1-000T-24D	24VDC	1	RM1 Series - Relay C/W Base
RM1-000T-230A	230V	1	RM1 Series - Relay C/W Base

Product Code	Voltage	No. of Poles	Product Information
RM2-0001-12DC	12VDC	2	RM2 Series - Relay C/W Base
RM2-000T-24A	24V	2	RM2 Series - Relay C/W Base
RM2-000T-24D	24VDC	2	RM2 Series - Relay C/W Base
RM2-000T-230A	230V	2	RM2 Series - Relay C/W Base

*SAME AS SRM HIGH IMPEDANCE VERSION

RM1 & RM2 SERIES - ACCESSORIES

Product Code	Product Information
M61G	GREEN LED, 6-24VAC/DC
M63G	GREEN LED, 110V-240VAC
ZG-GZ80	8 WAY CONNECTOR BAR

RM1 & RM2 SERIES - ACCESSORIES

LED mechanical indicator and lockable front test button as standard.

Product Code	Voltage	No. of Poles
R2N 12VDC	12VDC	2
R2N-24VAC	24V	2
R2N-24VDC	24VDC	2
R2N-230VAC	230V	2

Product Code	Voltage	No. of Poles
R3N-12VDC	12VDC	3
R3N-24VAC	24V	3
R3N-24VDC	24VDC	3
R3N-230VAC	230V	3

Product Code	Voltage	No. of Poles
R4N-12VDC	12VDC	4
R4N-24VAC	24V	4
R4N-24VDC	24VDC	4
R4N-230VAC	230V	4

GZT & GZM SERIES - BASES

Product Code	To Suit Relay Type	Terminal Connection
GZT2	R2N	Top & Bottom
GZT3	R3N	Top & Bottom
GZT4	R4N	Top & Bottom
GZM3	R3N	Top
GZM4	R4N	Top

R2N, R3N & R4N SERIES - ACCESSORIES

Product Code	Product Information
ZG-GZ4	6 Way Connector Bar

L.E.D. PANEL INDICATOR LAMPS AD22 / AD16

Product Code	Voltage (V)	Product Information
AD22-R (RED)	24 or 240	FEATURES • Expected life span 30,000hrs • Intensity 60cd/m2 • Rated current 20MA • Insulating resistance 2m • Voltage tolerance +/- 20% • Operating temperature - 25°C +55°C • Vibration frequency 2.8HZ acc 0.7g • IP rating IP65 • CE marked • LED type illumination
AD22-A (AMBER)	24 or 240	
AD22-G (GREEN)	24 or 240	
AD22-B (BLUE)	24 or 240	
AD22-W (WHITE)	24 or 240	
AD16-R (RED)	24 or 240	
AD16-A (AMBER)	24 or 240	
AD16-G (GREEN)	24 or 240	
AD16-B (BLUE)	24 or 240	
AD16-W (WHITE)	24 or 240	

LAMP TEST VERSION

Product Code	Voltage (V)	Product Information
AD22-R-LT (RED)	24 or 240	NOTE: Lamp Test Wiring T = Testing Terminal, S = Signal Terminal, C = Current Terminal (power in-put line)
AD22-A-LT A (MBER)	24 or 240	
AD22-G-LT (GREEN)	24 or 240	
AD22-B-LT (BLUE)	24 or 240	
AD22-W-LT (WHITE)	24 or 240	

AD22 FIXING TOOL

Product Code	Product Information
AD22 FIXING TOOL	A fixing tool to help with the mounting of the AD22 series panel lamps. The Tools engages with the locking collar to secure the AD22 panel lamps to a control panel. A must for any panel builders and service engineers.

2/3 POSITION SELECTOR SWITCHES AND PUSH BUTTONS

Can accept either a voltage or current input which can be rescaled to either voltage or current outoiut and also can reverse an input signal.

Product Code	Product Information
PB22SS2B-1A	2 Pos Selector Switch C/W 1 N/O Contact
PB22SS4B-1AA	3 Pos Selector Switch C/W 2 N/O Contact
PB22BFB-1A	Black Pushbutton C/W 1x N/O Contact
PB22BFG-1A	Green Pushbutton C/W 1x N/O Contact
PB22BFR-1B	Red Pushbutton C/W 1x N/C Contact

Accessories	
PB22-A	Normally Open Contact Block
PB22-B	Normally Closed Contact Block

EMERGENCY ISOLATOR - IP65 RATED

Plastic enclosed Isolators LB Series 4 Pole up to 80 AMPS.

Product Code	Size (AMPS)
LB204P	20
LB324P	32
LB404P	40
LB634P	63
LB804P	80

WATER LEAK DETECTION MODULES

The AX-WLD2 is a range of single and dual zone water detection modules designed for Din Rail mounting. The water leak module can have a total of 200m of cable connected to each input (cable and header). A relay output provides an alarm signal to a remote alarm annunciator or a BMS system. The sensitivity is adjustable to ensure false returns are not given. An optional alarm buzzer can be incorporated.

Product Code	Product Information	
AX-WLD2-24	24vac/Dc Alarm One Or Two Zone Detection Module	FEATURES • A total of 200m cable on each zone • Adjustable sensitivity on each zone • Can take inputs from a mixture of cable sensors, rain sensors or point sensors • Audible alarm option • LED indication of each channel alarm • Normally open and closed contacts • Relay output to BMS or Alarm annunciator.
AX-WLD2-230	230v Alarm One Or Two Zone Detection Module	
AX-WLD2-24-A	24vac/Dc Alarm One Or Two Zone Detection Module & Alarm Buzzer	
AX-WLD2-230-A	230v Alarm One Or Two Zone Detection Module & Alarm Buzzer	
AX-WCS-5	Cable Sensor For Wld, 5m Cable 3m Header	
AX-WCS-10	Cable Sensor For Wld, 10m Cable 3m Header	
AX-WCS-15	Cable Sensor For Wld, 15m Cable 3m Header	
AX-WCS-20	Cable Sensor For Wld, 20m Cable 3m Header	
AX-WCS-xx	Customer Specified Cable And Header Length	
AX-WPS	Point Sensor For Wld	
AX-WRS1	Rain Sensor With 1m Cable For Wld	
AX-WLD-DTA	Single Zone Drip Tray Version	
AX-WLD	Enclosure For Ax-Wld2	

WATER LEAK DETECTION MODULE FOUR ZONE

The AX-WLDF Four zone water leak detection module with open or short circuit cable sensor detection. Must be used with “F” type sensors only (see below)

- LED indication of each alarm zone

Product Code	Product Information
AX-WLDF-24	Four Zone Module 24v
AX-WLDF-230	Four Zone Module 230v
AX-WLDF-C2	Cable Sensor For Wldf 2m Cable 1m Header
AX-WLDF-C5	Cable Sensor For Wldf 5m Cable 3m Header
AX-WLDF-C10	Cable Sensor For Wldf 10m Cable 3m Header
AX-WLDF-C15	Cable Sensor For Wldf 15m Cable 3m Header
AX-WLDF-C20	Cable Sensor For Wldf 20m Cable 3m Header
AX-WLDF-CXX	Cable Sensor For Wldf – Specify – Up To 200m
AX-WLDF-P2	Point Sensor Premium For Wldf & 2m Cable
AX-WLDF-P5	Point Sensor Premium For Wldf & 5m Cable

SONTAY IO MODULES

Sontay IO modules offer capability for rescaling, converting, isolating and overriding signals from BMS controllers.

ANALOGUE RESCALING MODULE

Can accept either a voltage or current input which can be rescaled to either voltage or current outoiut and also can reverse an input signal.

Product Code	Product Information
IO-A-RM	Analogue Rescaling Module

RAISE/LOWER TO ANALOGUE MODULE

Accepts a Raise/Lower relay (pulsed relay contact inputs or pulsed DC or AC voltage inputs) signal and provides 0-10Vdc output

Product Code	Product Information
IO-A-UD	Raise/Lower to Analogue Module 45, 60, 120 or 240 seconds selectable.

ANALOGUE OVERRIDE MODULE

Intended for applications which require independent manual override of analogue output channels from a BMS controller, as a failsafe in event of controller failure.

Product Code	Product Information
IO-ABM4	4 Channel Override Module

DIGITAL INPUT MULTIPLEXERS

These Modules are to expand a BMS controllers input capacity by multiplexing four or six digital signals, or 24Vac/dc inputs into a single analogue controller unit.

Product Code	Product Information
IO-DIM-4	4 x VFC or 24V inputs to 1-10Vdc /4-20mA output
IO-DIM-6	6 x VFC or 24V inputs to 1-10Vdc /4-20mA output

RELAY MODULES

For use with BMS Controllers to convert an analogue control output to various switching relay modes.

Product Code	Product Information
IO-RM-2	2-stage Relay Module
IO-RM-3	3-stage Relay Module
IO-RM-4	4-stage Relay Module
IO-RM-8	8-stage Relay Module
IO-RM-A	The IO-RM-A adjustable relay module provides individually adjustable on and off switching points.

SINGLE RELAY MODULES

For use with BMS controllers for switching plant and isolation of input signals. Supplied complete with DIN-rail mounting base and retaining clip.

Product Code	Product Information
IO-RM1-12DC	Single Relay, 12Vdc Module
IO-RM1-24DC	Single Relay, 24Vdc Module
IO-RM1-24AC	Single Relay, 24Vac Module
IO-RM1-240AC	Single Relay, 240Vac Module

SONTAY SMART REMOTE IO MODULES

Sontays new range of mini Smart IO Modules offer extension to any BACnet or Modbus network when you require additional inputs & outputs. They allow easy integration of non-intelligent inputs and outputs to BACnet or Modbus network protocols.

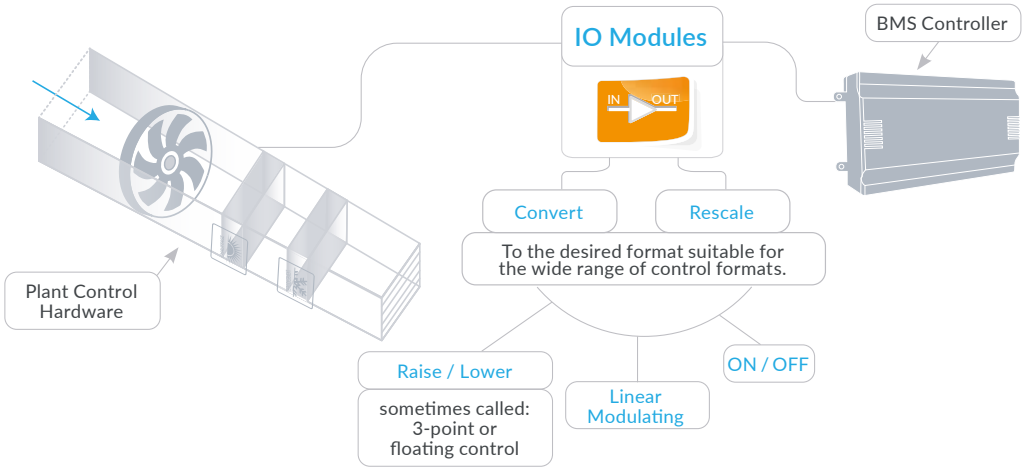
Product Code	Product Information
SC-IO-100	Smart Communication IO Module 8U/I
SC-IO-102	Smart Communication IO Module 4 U/I, 2 U/O, & 2 B/O

SC-IO-100 · SC-IO-102

Smart Remote IO Modules

Bringing flexibility and functionality to your projects.

The SC-IO-10x products offer an extension to your BACnet or Modbus network.
When your application requires additional inputs and outputs on a physical controller, you can combine I/O of the SC-IO-10x with your system, to provide simple expansion of a new or existing controller. Allowing easy integration on non-intelligent inputs and outputs. On-board LEDs help track and diagnose any input and output activity during operation.



Provide simple expansion in any BMS application

Smart IO modules offer expansion with any BMS controller with BACnet or Modbus functionality

Options for your amount of inputs and outputs

Simple setup and Cost effective networkable device points via BACnet or Modbus

COMMUNICATION:

Selectable BACnet or Modbus communication

MAC address set via DIP switch or network

Copy & broadcast configuration to other SC-IO-10x modules (BACnet only)

FEATURES:

SC-IO-100:
8 Universal Inputs

SC-IO-102:
4 Universal Inputs -
2 Binary Outputs -
2 Analogue Outputs

Manual output override switches on SC-IO-102

DIN-rail mounting

LED status for power & inputs/ outputs

iSMA CONTROLLI

The new MAX Multiprotocol I/O Modules

3 x 8I = 1 x 24I

3 x 8I IP = 1 x 24I-IP

Available now!

3x
Faster installation
Easier to maintain
Less cabling

The Same great features!

Modbus BACnet

12O-H and 12O-H-IP key features

Multiprotocol I/O Modules
With maximum number of digital outputs.

Manual Override Switches
Each output can be manually overridden using a dedicated hand operating switch.

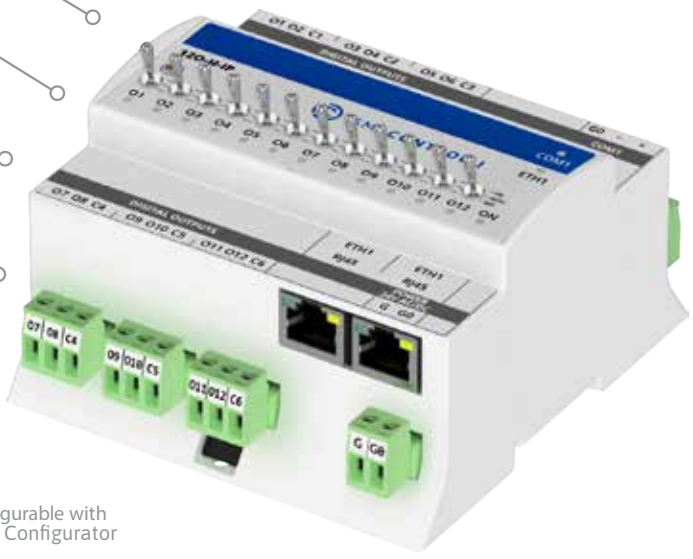
12 Digital Outputs
Digital outputs equipped with NO 3 A relays allow for direct control of HVAC applications.

Ethernet interface with built-in switch
Two Ethernet ports working in a switch mode allow for daisy chaining multiple modules over RJ45, which enhances the cabling process and reduces engineering time.

Open Protocols Standard
MAX I/O modules work as remote or distributed I/Os over IP or RS485 with open protocols: BACnet and Modbus.

Open protocols standard
Offers a versatility ofinstalling the modules in both new and existing facilities, whether it is a system expansion or a retrofit.

Modbus TCP/IP to Modbus RTU/ASCII Gateway
Built-in Modbus gateway on the COM1 port enables integration of up to 128 Modbus slave devices to the IP layer.



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