01

BMS CONTROLLERS

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Controllers

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iSMA CONTROLLI SYSTEM

IBC partner iSMA CONTROLLI operates in the field of building automation. Their purpose is to build an international brand that helps to make buildings better places to live and work through innovative solutions for well-being, security, sustainability, and efficiency.

iSMA CONTROLLI has over 85 years of experience in manufacturing control valves, actuators, and intelligent building automation systems offers a reliable and trusted solution for every application.

MAC36NL CONTROLLERS

Powered by Niagara the iSMA-B-MAC36NL hybrid IoT controller with 36 I/O, HDMI port, 2 USB and RS485 port, provides control, data logging, alarming, scheduling, integration and visualization and can work as standalone mini-BMS supervisory controller.

With protocols like BACnet IP, Modbus TCP, LON IP, M-Bus IP, etc. all supported, the ISMA-B-MAC36NL offers endless possibilities of integration between different systems like HVAC, access control, lighting, CCTV, and many others.

Product Code	Product Information
iSMA-B-MAC36NL	Controller hardware,1xRS485, 2xETH, 2xUSB, 1xHDMI, 1xSD card slot, 16xUI, 4xDI, 8xDO, 8xAO. Power supply 24 V AC/DC.
iSMA-B-MAC36NL-RS	Controller hardware, 2xRS485, 2xETH, 2xUSB, 1xHDMI, 1xSD card slot, 16UI, 4DI, 8DO, 8AO. Power supply 24 V AC/DC.
iSMA-B-MAC36NL-M	Controller hardware, 1x M-Bus, 1xRS485, 2xETH, 2xUSB, 1xHDMI, 1xSD card slot, 16xUI, 4xDI, 8xDO, 8xAO. Power supply 24 V AC/DC.
iSMA-B-SD-NL	SD card dedicated for iSMA-B-MAC36NL controllers. Used to store and move configuration files and licenses. Required to start the controller.

Standard software models include Open Drivers: BACnet IP and MSTP, LON, KNX-IP, M-bus, Modbus all types, oBiX, OpenADR, SNMP, Z-Wave. BULT-IN 36 I/O - do not reduce the core license capacity. The Initial 18 months maintenance license is mandatory to order. It is not required to renew after it expires

NEW! MACPRO CONTROLLER – PERFORMANCE REDEFINED

iSMA-B-MAC36PRO is a family of next generation Master Application Controllers. This advanced iteration boasts a major upgrade with a powerful Quad-Core 1.6 Ghz processor, doubled RAM and storage capacity, and an efficient visualisation system with HDMI and USB support.MAC36PRO powered by Niagara Framework allows to take advantage of all the functionality of the Niagara Framework, enhancing its potential with the capabilities of this innovative controller. This controller is extremely versatile, offering a set of onboard I/Os consisting of 16 UI, 8 AO, 4 DI, and 8 DO, making it adaptable to a wide range of applications.

Among its various functions, the iSMA-B-MAC36PRO excels in control, data logging, alarming, scheduling, integration and visualization. To allow IP connectivity there are 2 Fast Ethernet ports that can operate as two independent ports. Built-in RS485 interface can be used to expand the number of I/O by connecting multiprotocol I/O modules or to integrate with other subsystems. The iSMA-B-MAC36PRO provides a rich graphical interface to be displayed on a standard web browser or an external display connected to a built-in HDMI and USB port (touchscreen support).

Product Code	Product Information
MACPRO	Powerful Quad-Core 1.6 GHz processor, 64-bit iSMA OS (Linux), 2 GB RAM, Opto-isolated RS485 interface, 2x independent Ethernet interfaces, 2x USB 2.0 interfaces, HDMI 1.4 interface, FRAM Memory for Data Recovery Service, iSMA OS Linux Distribution, 8GB micro SD card for system and user, Status LED indicators, DIN rail mounted, 36 I/O onboard, Two programmable DIP switches, Two programmable rotary switches.
MACPRO-RS	As above with 2 RS485 ports.
MACPRO-M	As above with M-Bus interface

iSMA CONTROLLI

powered by niagara framework®

Product Code	Product Information
iSMA-B-MAC-L-100	Niagara Core License for iSMA-B-MAC Controllers - 100 Niagara Proxy Points (requires iSMA-B-MAC-100-M0 maintenance)
iSMA-B-MAC-100-M0	iSMA-B-MAC-L-100 - Initial 18 month maintenance. Must be purchased in conjunction with initial Core software. Optional 3 or 5 year maintenance may be substituted.
iSMA-B-MAC-L-250	Niagara Core License for iSMA-B-MAC Controllers - 250 Niagara Proxy Points (requires iSMA-B-MAC-250-M0 maintenance)
iSMA-B-MAC-250-M0	iSMA-B-MAC-L-250 - Initial 18 month maintenance. Must be purchased in conjunction with initial Core software. Optional 3 or 5 year maintenance may be substituted.
iSMA-B-MAC-L-500	Niagara Core License for iSMA-B-MAC Controllers - 500 Niagara Proxy Points (requires iSMA-B-MAC-500-M0 maintenance)
iSMA-B-MAC-500-M0	iSMA-B-MAC-L-500 - Initial 18 month maintenance. Must be purchased in conjunction with initial Core software. Optional 3 or 5 year maintenance may be substituted.
iSMA-B-MAC-L-1250	Niagara Core License for iSMA-B-MAC Controllers - 1250 Niagara Proxy Points (requires iSMA-B-MAC-1250-M0 maintenance)
iSMA-B-MAC-1250-M0	iSMA-B-MAC-L-1250 - Initial 18 month maintenance. Must be purchased in conjunction with initial Core software. Optional 3 or 5 year maintenance may be substituted.

DEMO EQUIPMENT

Product Code	Product Information
iSMA-B-MAC-L-DEMO	iSMA-MAC36NL controller with unlimited points and protocols, for partner engineering and demo use only. Not for end user sales. 18 months Initial maintenance included.

JACE™8000*

This JACE 8000 controller leverages all of the features of the Niagara Framework®. It adds to the enhanced user experience, maximizing Niagara's advantages in delivering HTML5 views, charting, and other aspects of data visualization. It offers robust security and improved device management capabilities.

With a simple configuration, toolless installation, low-cost integration, and high-powered performance, the JACE 8000 controller is a radical evolution in connecting and controlling devices worldwide.

iSMA CONTROLLI

Product Code	Product Information
iSMA-B-J8-100	JACE-8000 controller with capacity of 100 Proxy Points, 18 months Initial maintenance included.
iSMA-B-J8-250	JACE-8000 controller with capacity of 250 Proxy Points, 18 months Initial maintenance included.
iSMA-B-J8-500	JACE-8000 controller with capacity of 500 Proxy Points, 18 months Initial maintenance included.

*JACE 8000 EOL. Last Time Buy date is planned for December 2025.

JACE™9000

Embedded IoT controller and server platform

Product Code	Product Information
iSMA-B-J9-100	Complete network controller with 18 months upgrade subscription and up to 100 proxy points service
iSMA-B-J9-250	Complete network controller with 18 months upgrade subscription and up to 250 proxy points service
iSMA-B-J9-500	Complete network controller with 18 months upgrade subscription and up to 500 proxy points service
iSMA-B-J9-1250	Complete network controller with 18 months upgrade subscription and up to 1250 proxy points service
iSMA-B-J9-5K	Complete network controller with 18 months upgrade subscription and up to 5000 proxy points service
iSMA-B-J9-10K	Complete network controller with 18 months upgrade subscription and up to 10000 proxy points service
iSMA-B-J8-LON-1	Expansion module with single FTT10A port
iSMA-B-J8-485-2	Expansion module with 2 RS485 ports
iSMA-B-J8-232-1	Expansion module with single RS232 port

EDGE 10

The Edge 10 is an IP-based field equipment controller, also powered by the Niagara Framework®. Niagara Edge 10 controllers drive applications such as zone temperature control, and the operation of fan coil units, single stage air handling units, water-source heat pumps and more. Niagara Edge 10 controllers run the full Niagara stack, with 10 points of on-board IO and IO-R-34 expansion capability.

Product Code	Product Information
iSMA-B-EDGE-10	Niagara Edge 10 field controller with 10 points of onboard IO, 1 RS-485 serial port, and 2 10/100 Ethernet ports. Includes Niagara N4 and drivers for BACnet, Modbus and SNMP. Supports up to 3 devices and 50 total points. Tridium EMEA Branded.

IBC stock over 2500 products ready for immediate delivery

2005

Serving the (BMS & HVAC) Industry since 2005

iSMA CONTROLLI

HMI DISPLAYS

Product Code	Product Information
iSMA-D-PD10C-B1-UK	10.1" LCD touch display, 10-point touch screen, Aspect Ratio 16:9, 1366x768 resolution, 1xHDMI, 1xVGA, 1xDVI, 1xI/O Audio, 1xRJ45-USB for touch input. Aluminum alloy housing in black with laser-printed "ISMA" logo. DC power supply 12 V or 24 V (AC power supply 110-240 V included - UK plug type)
iSMA-D-PA7C-B1-UK	7-inch screen panel PC with Android. Built-in iSMA application with user management functions and "Kiosk Mode". 10 point touch screen (CTP), 16:9 aspect ratio, 1024x600 resolution, 250 nit standard brightness. Built-in: WiFi, 1xRJ45, 2xRS232, 3xUSB, 1xHDMI, 1xTF/SD. Aluminium alloy housing in black with laser-printed logo, VESA compliant. Power supply 12 V DC, (110 V - 240 V AC power supply included - UK plug type).
iSMA-D-PA10C-B1-UK	10.1-inch screen panel PC with Android. Built-in iSMA application with user management functions and "Kiosk Mode".10-point capacitive touch panel (CTP), screen Aspect Ratio 16:9, Resolution 1366x768,standard luminance 300nit. Built-in: 1xRJ45, 2xRS232, 2xUSB, 1xTF/SD card. Black colour alluminum alloy housing material with laser printed 'ISMA" logo, VESA compilant. Power supply 12 V DC (110 V - 240 V AC power supply included - UK plug type).
iSMA-D-PA15C-B1-UK	15.6-inch screen panel PC with Android. Built-in iSMA application with user management functions and "Kiosk Mode", 10-point capacitive touch panel (CTP), screen Aspect Ratio 16:9, Resolution 1920x1080,standard luminance 300nit. Built-in: 1xRJ45, 2xRS232, 2xUSB, 1xTF/SD. Black colour alluminum alloy housing material with laser printed 'ISMA" logo, VESA compilant. Power supply 12 V DC (110 V - 240 V AC power supply included - UK plug type).
iSMA-D-PEN-ACC	HMI screens accessory: Stylus for capacitive displays. Magnetic and self-adhesive holder included.
PA-LED10-B	Size 10.1", Aspect Ratio 16:10, Resolution 1280:800, Contrast 800:1, Luminance 250 cd/m2, Active Area 217.40 x 136.40 mm / 8.56 x 5.37 in, View angle 85/85/85/85(L/R/U/D)
PA-LED13-B	Size 13.3", Aspect Ratio 16:9, Resolution 1920:1080, Contrast 800:1, Luminance 250 cd/m2, Active Area 293.76 x 165.24 mm / 11.57 x 6.51 in, View angle 85/85/85/85(L/R/U/D)

COMMERCIAL LCD PANEL

Communication with building occupants.

Android PA-LED panels are the perfect solution for modern interiors of residential and commercial buildings. The panels not only add an attractive look to the building space, but also significantly enhance its usability with unique features. The panel allows to display and control any HTML5-based application thanks to the dedicated iC SmartView platform. The built-in multicolor LED bar allows for direct interaction with building users through visual communication.

Simplified installation with PoE+ support

PA-LED panels offer a user-friendly design offering installation in both landscape and portrait modes, that seamlessly integrates into any environment. Supporting both Power over Ethernet (PoE) and DC power supply, our panels come equipped with metal mounting brackets for easy installation on any surface.

iSMA TOOL FOR SEDONA FREEWARE CONTROLLERS

Product Code	Product Information
iSMA-B-CH-TR-1Y	Annual Support fee and renewal of Demo equipment and Workbench licenses for partner. The accounting period is fixed, each year begins on 1 March. In the absence of payment for the next period, all Demo licenses expire at the end of February.
iSMA-B-CH-TR-1M	"Annual Support fee and renewal of Demo equipment and Workbench licenses for partner. Per month in first year before renewal."

iSMA CONTROLLI

Control **Point**

Wall Control Panel
Open and Customizable

Key Features

Multiple Versions Available

16 hardware configurations. Control Point comes in white or black housing and has two versions of buttons, with or without fan control. Available with a set of temperature, CO_2, and humidity sensors in different configurations.

Open Customization Over Network

Not only default values like temperature can be displayed but also alarms, blinds, and lightning thanks to the open network interface.

Multiprotocol Integration

Factory-equipped with the two most popular open-communication protocols, Modbus and BACnet.

Plug & Play Comfort Management Solutions

Combined with iSMA CONTROLLI zone controllers, it is ready to use out of the box reducing engineering costs.

Seamless Configuration

Control Point offers effortless configuration using network protocols or free-of-charge software using built-in USB-C port.

www.ic.tech

FCU

The fully programmable controller iSMA-B-FCU-HH, is built with the aim of controlling the FCU. The controller is factory-equipped with the two most popular open communication protocols Modbus ASCII/RTU and BACnet MS/TP, which are selected using DIP switches. To minimise time and simplify commissioning process the iSMA-B-FCU-HH controller is delivered with universal application, which supports the most popular types of FCU.

In the case, if the application does not meet the project requirements, it can be modified or created from scratch. Changing of the application is possible in real-time by USB. There are three hardware versions which have different types of Triac Outputs and power supply.

Product Code	Product Information
iSMA-B-FCU-HH	Configurable/Free programable fan-coil unit controller with Modbus RTU or BACnet MS/TP communication. Build-In: 4xDI, 4xSI, 1xDO-HTG (10 A), 1xDO-CLG (6 A), 3xDO-FAN (6A@230 V AC), 2xTO (0,5 A@230 V AC), 3xAO. Power supply 230 V AC.
iSMA-B-FCU-HL	Configurable/Free programable fan-coil unit controller with Modbus RTU or BACnet MS/TP communication. Build-In: 4DI, 4SI, 1Do-HTG (10 A), 1Do-CLG (6 A), 3Do-FAN (6 A@230 V AC), 2xTO (0,3 A@24 V AC), 3AO. Power supply 230 V AC.
iSMA-B-FCU-LL	Configurable/Free programable fan-coil unit controller with Modbus RTU or BACnet MS/TP communication. Build-In: 4xDI, 4xSI, 1xDO-HTG (10 A), 1xDO-CLG (6 A), 3xDO-FAN (6 A@24 V AC), 2xTO (0,5 A@24 V AC), 3XAO. Power supply 24 V AC.

AAC20 SEDONA FRAMEWORK FREELY PROGRAMMABLE CONTROLLER

The iSMA-B-AAC20 controller is equipped with 22 I/O. The application for control algorithm can be created and modified in real-time by free software iSMA Tool or by standard Niagara AX Workbench. As an Integration Controller, iSMA-B-AAC20 can be a platform for integration and control of Modbus (RTU, ASCII, TCP), BACnet (MS/TP, IP), 1-Wire, M-BUS (Option) and DALI (Option) devices. This controller has 2x Fast Ethernet ports with switch mode.

Product Code	Product Information
iSMA-B-AAC20	Free programmabe Advanced Application Controller, 1xRS485, 2xETH, 1x1-Wire, 1xUSB, 8xUI, 4xDI, 4xDO, 4/6x AO. Power supply 24 V AC/DC.
iSMA-B-AAC20-D	Free programmabe Advanced Application Controller, 1xRS485, 2xETH, 1x1-Wire, 1xUSB, 1xDALI (built-in power supply max.130 mA), 8xUI, 4xDI, 4xDO, 4/6x AO. Power supply 24 V AC/DC.
iSMA-B-AAC20-M	Free programmabe Advanced Application Controller, 1xRS485, 2xETH, 1x1-Wire, 1xUSB, 1xM-Bus interface (build-in power supply up to 20 meters), 8xUI, 4xDI, 4xDO, 4/6x AO. Power supply 24 V AC/DC.
iSMA-B-AAC20-LCD	Free programmabe Advanced Application Controller with LCD, 1xRS485, 2xETH, 1x1-Wire, 1xUSB, 8xUI, 4xDI, 4xDO, 4/6x AO. Power supply 24 V AC/DC.
iSMA-B-AAC20-LCD-D	Free programmabe Advanced Application Controller with LCD, 1xRS485, 2xETH, 1x1-Wire, 1xUSB, 1xDALI (built-in power supply max.130 mA), 8xUI, 4xDI, 4xDO, 4/6x AO. Power supply 24 V AC/DC.
iSMA-B-AAC20-LCD-M	Free programmabe Advanced Application Controller with LCD, 1xRS485, 2xETH, 1x1-Wire, 1xUSB, 1xM-Bus interface (build-in power supply up to 20 meters), 8xUI, 4xDI, 4xDO, 4/6x AO. Power supply 24 V AC/DC.

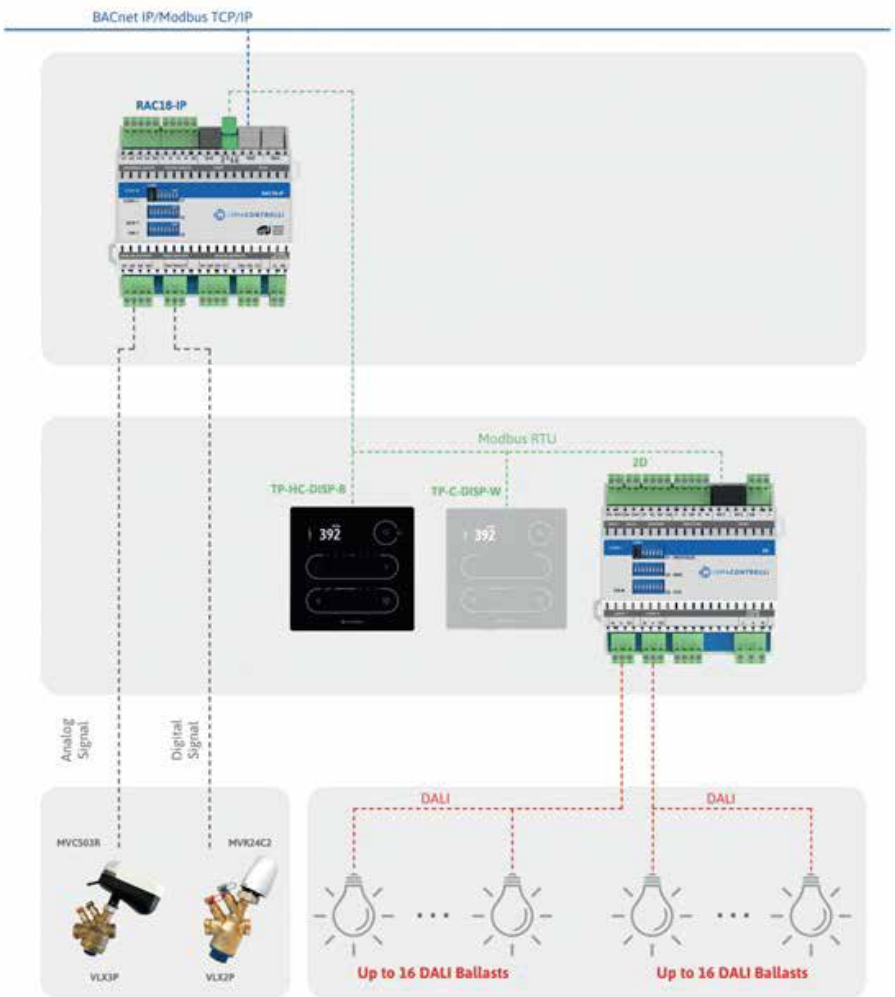
RAC CONTROLLERS

With 18 I/O's on board, the RAC18-IP is a multifunctional device providing comfort in a single room or zone and, thanks to the built-in Nano EDGE ENGINE cutting-edge software, the controller can work on multiple applications simultaneously.

RAC offers a set of libraries and components tailored to create cycle-driven user applications and provides an automatic BACnet exposure and real-time programming. Maintenance and programming of the device are possible from anywhere in real time with a dedicated, free-of-charge tool. The RAC18-IP ensures an easy replacement process with a system and applications on a removable SD card.

Product Code	Product Information
RAC18-IP	Free programable Room Application Controller, 1xRS485, 2xETH (fail-safe protected), 1xUSB, 4xUI, 4xDI, 5xDO, 3xAO, 2xTO. Power supply 24 V AC/DC.

nano EDGE ENGINE



TOUCH POINT WALL PANELS

The Touch Point is a modern comfort management wall panel with two most popular open communication protocols: Modbus RTU/ASCII and BACnet MS/TP. The Touch Point is available in different configurations of sensors (temperature, CO2, and humidity), colours, versions with or without display, and touch buttons. The panel can be configured using the iSMA Configurator software or Modbus registers/BACnet objects. It fits most of standard junction boxes in Europe and can easily be installed using a wall back box.

Key Features

- Modern and smart design • Intuitive management • Ease of installation and configuration
- Multiprotocol interface • Ultimate flexibility • Free software: iSMA Tool & iSMA Configurator
- Five touch function buttons • RS485 interface • Modbus RTU/ASCII and BACnet MS/TP
- Temperature sensor as a standard, humidity and CO2 sensors as an option • USB type C interface
- DIP switches for configuration • Buzzer • Navigation RGB LED

Product Code	Product Information
TP-B/W*	Built-in TFT display, Five touch function buttons, RS485 interface, USB type C interface, DIP switches for configuration. Voltage: 20-34 V DC; 24 V AC ± 20%. Temperature sensor: 10k NTC type, range: 0-50˚C, accuracy: ± 0.5˚C, resolution: ± 0.1˚C. Humidity sensor: (applies to version with humidity sensor) Range: 0-100% RH, accuracy: ± 2% RH in range 10-90% RH, resolution: ± 0.1% RH. CO2 sensor (applies to version with CO2 sensor) Range: 400-4000 ppm, accuracy: ± 30 ppm
TP-C-B/W*	With CO2 sensor. Built-in TFT display, Five touch function buttons, RS485 interface, USB type C interface, DIP switches for configuration. Voltage: 20-34 V DC; 24 V AC ± 20%. Temperature sensor: 10k NTC type, range: 0-50˚C, accuracy: ± 0.5˚C, resolution: ± 0.1˚C. Humidity sensor: (applies to version with humidity sensor) Range: 0-100% RH, accuracy: ± 2% RH in range 10-90% RH, resolution: ± 0.1% RH. CO2 sensor (applies to version with CO2 sensor) Range: 400-4000 ppm, accuracy: ± 30 ppm
TP-H-B/W*	With humidity sensor. Built-in TFT display, Five touch function buttons, RS485 interface, USB type C interface, DIP switches for configuration. Voltage: 20-34 V DC; 24 V AC ± 20%. Temperature sensor: 10k NTC type, range: 0-50˚C, accuracy: ± 0.5˚C, resolution: ± 0.1˚C. Humidity sensor: (applies to version with humidity sensor) Range: 0-100% RH, accuracy: ± 2% RH in range 10-90% RH, resolution: ± 0.1% RH. CO2 sensor (applies to version with CO2 sensor) Range: 400-4000 ppm, accuracy: ± 30 ppm
TP-HC-B/W*	With humidity sensor, CO2 sensor. Built-in TFT display, Five touch function buttons, RS485 interface, USB type C interface, DIP switches for configuration. Voltage: 20-34 V DC; 24 V AC ± 20%. Temperature sensor: 10k NTC type, range: 0-50˚C, accuracy: ± 0.5˚C, resolution: ± 0.1˚C. Humidity sensor: (applies to version with humidity sensor) Range: 0-100% RH, accuracy: ± 2% RH in range 10-90% RH, resolution: ± 0.1% RH. CO2 sensor (applies to version with CO2 sensor) Range: 400-4000 ppm, accuracy: ± 30 ppm
TP-DISP-B/W*	With display. Built-in TFT display, Five touch function buttons, RS485 interface, USB type C interface, DIP switches for configuration. Voltage: 20-34 V DC; 24 V AC ± 20%. Temperature sensor: 10k NTC type, range: 0-50˚C, accuracy: ± 0.5˚C, resolution: ± 0.1˚C. Humidity sensor: (applies to version with humidity sensor) Range: 0-100% RH, accuracy: ± 2% RH in range 10-90% RH, resolution: ± 0.1% RH. CO2 sensor (applies to version with CO2 sensor) Range: 400-4000 ppm, accuracy: ± 30 ppm
TP-C-DISP-B/W*	With display, CO2 sensor. Built-in TFT display, Five touch function buttons, RS485 interface, USB type C interface, DIP switches for configuration. Voltage: 20-34 V DC; 24 V AC ± 20%. Temperature sensor: 10k NTC type, range: 0-50˚C, accuracy: ± 0.5˚C, resolution: ± 0.1˚C. Humidity sensor: (applies to version with humidity sensor) Range: 0-100% RH, accuracy: ± 2% RH in range 10-90% RH, resolution: ± 0.1% RH. CO2 sensor (applies to version with CO2 sensor) Range: 400-4000 ppm, accuracy: ± 30 ppm
TP-H-DISP-B/W*	With display, humidity sensor. Built-in TFT display, Five touch function buttons, RS485 interface, USB type C interface, DIP switches for configuration. Voltage: 20-34 V DC; 24 V AC ± 20%. Temperature sensor: 10k NTC type, range: 0-50˚C, accuracy: ± 0.5˚C, resolution: ± 0.1˚C. Humidity sensor: (applies to version with humidity sensor) Range: 0-100% RH, accuracy: ± 2% RH in range 10-90% RH, resolution: ± 0.1% RH. CO2 sensor (applies to version with CO2 sensor) Range: 400-4000 ppm, accuracy: ± 30 ppm
TP-HC-DISP-B/W*	With display, humidity sensor, CO2 sensor. Built-in TFT display, Five touch function buttons, RS485 interface, USB type C interface, DIP switches for configuration. Voltage: 20-34 V DC; 24 V AC ± 20%. Temperature sensor: 10k NTC type, range: 0-50˚C, accuracy: ± 0.5˚C, resolution: ± 0.1˚C. Humidity sensor: (applies to version with humidity sensor) Range: 0-100% RH, accuracy: ± 2% RH in range 10-90% RH, resolution: ± 0.1% RH. CO2 sensor (applies to version with CO2 sensor) Range: 400-4000 ppm, accuracy: ± 30 ppm

*B/W: all panels are available in black or white, which is reflected in the last letter of the product code, e.g., TP-H-DISP-B or TP-C-W.

TOUCH POINT VAV

The Touch Point VAV is a modern comfort management wall panel with two most popular open communication protocols: Modbus RTU/ASCII and BACnet MS/TP. The Touch Point VAV panel is available in different configurations of sensors (temperature, CO2, and humidity), colours, and touch buttons. The panel can be configured using the iSMA Configurator software or Modbus registers/BACnet objects. It fits most of standard junction boxes in Europe and can easily be installed using a wall back box.

Key Features

- Modern and smart design • Intuitive management • Ease of installation and configuration
- Multiprotocol interface • Ultimate flexibility • Free software: iSMA Tool & iSMA Configurator
- Three touch function buttons • RS485 interface • Modbus RTU/ASCII and BACnet MS/TP
- Temperature sensor as a standard, humidity and CO2 sensors as an option • USB type C interface
- DIP switches for configuration • Buzzer • Navigation RGB LED

Product Code	Product Information
TP-VAV-DISP-B/W*	With display.
TP-VAV-C-DISP-B/W*	With display and CO2 sensor.
TP-VAV-H-DISP-B/W*	With display and humidity sensor
TP-VAV-HC-DISP-B/W*	With display, CO2 sensor and humidity sensor

*B/W: all panels are available in black or white, which is reflected in the last letter of the product code, e.g., TP-VAV-H-DISP-B or TP-VAV-C-DISP-W.

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.

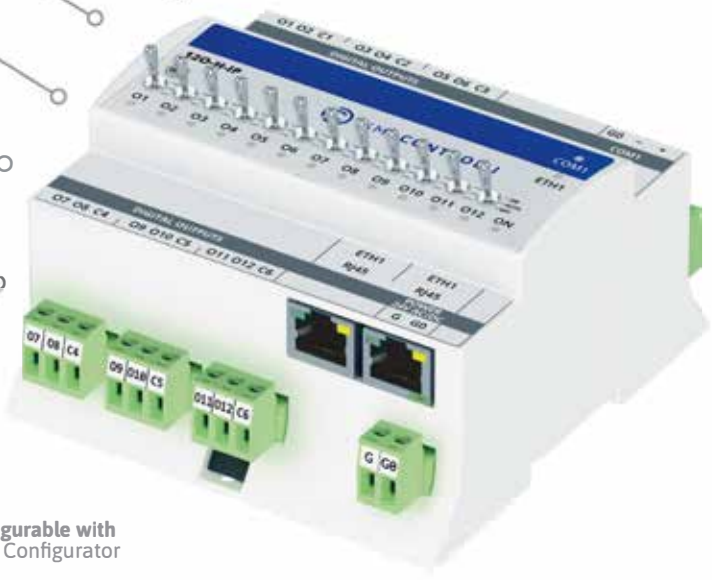
12 Digital Outputs
Digital outputs equipped with NO 3 A relays
allow for direct control of HVAC applications.

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 of installing 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.



Configurable with
iSMA Configurator

SAUTER
Creating Sustainable Environments.

ROOM AUTOMATION CONTROLLERS - HIGH-PERFORMANCE, MODULAR, COMMUNICATIVE AND READY FOR IOT.

SAUTER ecos guarantees seamless integration into the building management system as well as the automation system of the primary plants while also providing maximum flexibility with the minimum use of energy. Integrated room automation from SAUTER controls not only the room climate, but also the lighting and sunshading. Individual daily programs and real time monitoring ensure comfort for users.

EY-RC 504/505: Room automation station, ecos504/505

Powerful function modules in the ecos504/505 integrate the regulation of the room temperature, lighting and sun shading to create a comfortable room climate with minimum energy consumption.

Features

- Part of the SAUTER modulo 5 system family
- Modular room automation station (AS) for up to eight rooms or eight flexible room segments
- BACnet/IP communication (EN ISO 16484-5) as BACnet Building Controller (B-BC)
- The ecoUnit 3 and ecoUnit 1 room operating units enable individual adjustment of the room climate
- Optimises energy consumption thanks to presence function, window contact monitoring, demand-controlled
- Ventilation, control of lighting and window blinds, and time-dependent setpoint specification
- Function libraries for climate, lighting and sunshading
- Expansion bus for remote ecoLink modules, ecoUnit room operating units and EnOcean wireless interface
- KNX interface to connect KNX operating units, sensors and actuators
- Integrated KNX tunnelling function (KNX/IP) for the commissioning of KNX with ETS
- DALI interface with DALI bus power supply for the connection of DALI electronic ballasts (EB) and DALI
- Sensors
- Web-based commissioning tool for DALI network
- SMI interface (SMI/SMI LoVo) for activating SMI motors for sunshading (window blinds, roller shutters)
- Integrated tunnelling function for commissioning with SMI-easyMonitor
- RS-485 half duplex, electrically isolated interface for Modbus/RTU, Modbus/ASCII
- Baud rate 600 to 115,200 bit/s with configurable RS-485 network resistors
- Modbus master with up to four simultaneous communication profiles
- Integrated tunnelling function for commissioning and monitoring with serial Modbus master tools
- Physical M-Bus interface and RS-232 interface for external M-Bus level converters
- Supports M-Bus baud rates of 300 to 38,400 bit/s
- M-Bus master function with up to four simultaneous communication profiles
- Integrated tunnelling function for commissioning and monitoring with M-Bus tools
- Time programme and calendar function; data recording
- Integrated (EY-RC504F202 only) or licensable MQTT functionality (MQTT Broker / Client)
- Engineering/programming using SAUTER CASE Suite (based on IEC 61131-3)
- Integration into the building management system via BACnet/IP with Ethernet interface

Product Code	Product Information
EY-RC504F0C1	Room controller modular,RS485/Modbus
EY-RC504F0D1	Room controller modular,M-Bus+RS232
EY-RC504F001	Room controller modular w/o COM Module
EY-RC504F001U	Room controller modular w/o COM Module
EY-RC504F011	Room controller modular KNX COM Module
EY-RC504F021	Room controller modular DALI COM Module
EY-RC504F041	Room controller modular, SMI COM module

Product Code	Product Information
EY-RC504F101	Room controller modular, w/o COM, with Web
EY-RC504F202	ecos504-IoT: BACnet MQTT gateway
EY-RC505F0A1	Room controller modular,KNX, 2x DALI
EY-RC505F0B1	Room controller modular,2x SMI
EY-RC505F0E1	Room controller modular,RS485(Modbus), M-Bus+RS232
EY-RC505F0F1	Room controller modular,RS485(Modbus), DALI
EY-RC505F0G1	Room controller modular,RS485(Modbus), SMI, DALI
EY-RC505F0H1	Room controller modular,KNX, RS485(Modbus), DALI
EY-RC505F0J1	Room controller modular,RS485(Modbus), 2x DALI
EY-RC505F031	Room controller modular KNX, DALI COM Module
EY-RC505F051	Room controller modular, SMI, DALI COM module
EY-RC505F061	Room controller modular, KNX, SMI COM module
EY-RC505F071	Room controller modular, KNX, SMI, DALI
EY-RC505F081	Room controller modular2x DALI COM Module
EY-RC505F091	Room controller modular,2x SMI, DALI

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SAUTER MODULO 6 AUTOMATION STATIONS

SAUTER modulo 6 offers unprecedented performance in terms of data points, memory capacity and processing speed, all with minimal space requirements. The app with an augmented reality function shows real-time values and signal labels. Values can be adjusted via the touch screen. As an alternative to smartphone operation, the range also includes a local operating unit (LOI) with a high-resolution graphical colour display. The LOI is compatible with all available I/O modules and offers priority operation decoupled from the station. modulo 6 connects to the cloud and IoT just as securely as with the existing HVAC systems. BACnet/SC adds another security level to the product range.

SAUTER modulo 6 Automation Stations regulate, control, monitor and optimise the energy efficiency in HVAC installations. The installation network is based on BACnet/IP – the communication protocol for networked building intelligence.

M-Bus Modbus ASHRAE BACnet MQTT

SAUTER
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Modular BACnet Automation Station, modu660-AS

Powerful function modules in the ecos504/505 integrate the regulation of the room temperature, lighting and sun shading to create a comfortable room climate with minimum energy consumption.

Features

- Part of the SAUTER modulo 6 system family
- Modular automation station, expandable with I/O modules and communication modules
- Regulation, control, monitoring and optimisation of operational systems in HVAC
- Locally expandable with up to 24 modules via the SAUTER Extension Bus
- Can be locally equipped with ecoLink I/O modules and ASV actuators via SLC interface
- Two RJ45 connections switched for daisy chain
- BACnet/IP communication (EN ISO 16484-5)
- BACnet profile B-BC
- AMEV profile AS-B
- REST API interface
- MQTT interface (MQTT Broker/Client)
- Encryption of communication with TLS
- Integrated web server for local commissioning, expandable with visualisation and operation
- User administration for identification, authentication and access control
- Bluetooth interface for mobile commissioning and maintenance
- Programming/parameterisation via PC using CASE Suite (based on IEC 61131-3)
- Control libraries
- Time and calendar function
- Predictive control based on meteorological forecast data
- Data recording on removable media (microSD card)
- User administration and user identification (web server)
- Alive signal output pulsed

Product Code	Product Information
EY6AS60F011	modu660-AS BACnet automation station

Modular BACnet automation station and web server, modu680-AS

Features

- Part of the SAUTER modulo 6 system family
- Modular automation station, expandable with I/O modules and communication modules
- Regulation, control, monitoring and optimisation of operational systems in HVAC
- Locally expandable with up to 24 modules via the SAUTER Extension Bus
- Can be locally equipped with ecoLink I/O modules and ASV actuators via SLC interface
- RS-485 interface for field bus integration (Modbus/RTU / ASCII)
- Four RJ45 connections for two separate IP networks (OT/IT; Operational/Information Technology). Three connections switched for daisy chain
- BACnet/IP communication (EN ISO 16484-5)
- BACnet profile B-BC
- AMEV profile AS-B
- REST API interface
- MQTT interface (MQTT Broker/Client)
- Integrated web server for local commissioning, visualisation and operation
- User administration for identification, authentication and access control
- Encryption of communication with TLS
- Bluetooth interface for mobile commissioning and maintenance
- Programming/parameterisation via PC using CASE Suite (based on IEC 61131-3)
- Control libraries
- Time and calendar function
- Predictive control based on meteorological forecast data
- Data recording on removable media (microSD card)
- User administration and user identification (web server)
- Alive signal output pulsed

Product Code	Product Information
EY6AS80F021	modu680-AS BACnet Building Controller and Supervisor

For SAUTER modulo 6 connection modules for the modulo 6 system above, see next section 02- I/O Modules.

SAUTER SINGLE-ROOM, HEATING AND AIR-CONDITIONING CONTROLLERS

For multiple building types, stand-alone or networked. SAUTER stand-alone controllers are tailored to applications such as heating, air-conditioning, ventilation or room control. They can be installed quickly. The intuitive operating concept ensures maximum comfort and guarantees, at the same time, the greatest possible energy efficiency in day-to-day operations. This allows all requirements for smooth functionality and economical operation to be combined.

SAUTER
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Modbus fan coil thermostat NRFC 413, 422...424

The SAUTER single-room controller combines the highest standards of operability with a modern design. The device can be used in various applications in hotel, business or residential premises. These include individual temperature control for single rooms, apartments and zones in 2- and 4-pipe systems. The electronic room controller is powerful, economical and easy to operate.

NRFC 413, 422...424: Modbus fan coil thermostat

Features

- Single-room controller for heating and cooling by means of air conditioning units in commercial and residential buildings
- For 2- or 4-pipe fan coil units, two-stage heating systems or water-bearing heat pumps
- Can be integrated into building management systems via Modbus/RTU
- Large configurable display with backlight
- Integrated ON/OFF timer
- Deactivatable button operation for public installations
- alve control via 2-point or 0...10 V output
- Supports 3-speed fans or fans with EC motor
- Summertime/wintertime change-over in 2-pipe applications
- Automatic deactivation of internal temperature sensor when using a cable temperature sensor
- Installation via mounting plate without opening the controller
- Universal design and low installation height of 14 mm for inconspicuous fitting

Product Code	Product Information	Fan
NRFC413MF111	2-pipe, continuous, with positional feedback signal	3 speeds
NRFC422MF111	2-pipe or 4-pipe, 2-point	3 speeds
NRFC423MF111	2-pipe or 4-pipe, continuous	3 speeds
NRFC424MF112	2-pipe or 4-pipe, 2-point or 2-pipe, continuous	EC motor with cut-off function

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NRT300: Heating and cooling with just one actuator

SAUTER equiflex NRT300 air-conditioning controller adds even more new facets to the world of room-temperature control. This flexible all-rounder can handle many applications, for both single-room and zone control. Key directly on device for individual changeover between presence and absence

Areas of use

Individual unitary control and zone control (heating, cooling, heating/cooling) e.g. in air conditioning systems (2- or 4-pipe systems) in hotels and residential and business spaces.

Features

- Air-conditioning controller for 2- and 4-pipe systems (heating, cooling, heating/cooling)
- Measurement of room temperature by either integrated or external temperature sensor
- Saves energy costs by means of presence/ absence key and rotary knob on front
- Inputs for C/O signal, changeover between presence and absence, dew-point monitoring and setpoint shift
- Choice of P or PI control with 2-point, pulse-pause, 3-point or outputs (0...10 V)
- LED indicator
- Servicing level with adjustable control parameters
- Frost-protection facility
- Electrical connection in baseplate
- Electronics in attachable housing

Product Code	Product Information
NRT300F041	Room temp.contr;switched;24V;P(2pt);PI(3pt);white
NRT300F061	Room temp.contr;continuousPI;24V;2x 0-10V;white
NRT300F062	Room temp. controllerfor 6-way ball valve
NRT300F063	Room temperature controller for 6-way ball valve

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Room operating unit, ecoUnit355 EY-RU 355

Individual setting of occupancy and absence as well as room setpoint correction, control of lights and window blinds for optimum energy usage in the room. Visualisation of the local energy consumption by means of multicolour LED indicator

Features

- Part of the SAUTER EY-modulo system family
- Room operating unit for ecos311, 500, 502, 504, 505 and ASV2
- Local, intuitive operation for temperature, fan and occupancy
- Large backlit (BL) display for status information on the room condition
- Ergonomic push-buttons with mechanical, tactile feedback
- Individual adjustment of the room climate via temperature detection and setpoint adjustment
- Operating mode can be set for room occupancy and actuation of a 3-speed fan
- ECO button for resetting to automatic mode
- Multicolour LED indicator for visualisation of energy consumption or as position LED
- Sturdy surface of front cover
- Fits into standard frame with 55 x 55 mm aperture
- Individually labelled buttons as accessories
- Expandable with EY-SU 358 switching unit for operating lights, window blinds etc.
- Frame can be ordered as an accessory
- Room operating unit with various functions, designs and colours

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Product Code	Product Information
EY-RU355FA02	Room Unit, LCD, NTC,0B([ ],[ ],[ ],[ ],[ ]),bk
EY-RU355FA21	Room Unit, LCD, NTC,2B (+,-,_,_,_),bk
EY-RU355FA31	Room Unit, LCD, NTC,3B (+,-,_,_,PRES), bk
EY-RU355FA32	Room Unit, LCD, NTC,3B (+,-,_,FAN,_),bk
EY-RU355FA41	Room Unit, LCD, NTC,4B (+,-,_,FAN,PRES), bk
EY-RU355FA42	Room Unit, LCD, NTC,4B (+,-,ECO,_,PRES), bk
EY-RU355FA51	Room Unit, LCD, NTC,5B (+,-,ECO,FAN,PRES),bk
EY-RU355FA52	Room Unit, LCD, NTC,5B (+,-,UP,DN,PRES), bk
EY-RU355FA53	Room Unit, LCD, NTC,5B (+,-,UP,DN,LI), bk
EY-RU355FA54	Room Unit, LCD, NTC,5B (+,-,ECO,FAN,C/F), bk
EY-RU355FA55	Room Unit, LCD, NTC,5B (+,-,UP,DN,FAN), bk
EY-RU355F002	Room Unit, LCD, NTC,0B([ ],[ ],[ ],[ ],[ ]),wh
EY-RU355F021	Room Unit, LCD, NTC,2B (+,-,_,_,_), wh
EY-RU355F031	Room Unit, LCD, NTC,3B (+,-,_,_,PRES), wh
EY-RU355F032	Room Unit, LCD, NTC,3B (+,-,_,FAN,_), wh
EY-RU355F041	Room Unit, LCD, NTC,4B (+,-,_,FAN,PRES), wh
EY-RU355F042	Room Unit, LCD, NTC,4B (+,-,ECO,_,PRES), wh
EY-RU355F051	Room Unit, LCD, NTC,5B (+,-,ECO,FAN,PRES), wh
EY-RU355F052	Room Unit, LCD, NTC,5B (+,-,UP,DN,PRES), wh
EY-RU355F053	Room Unit, LCD, NTC,5B (+,-,UP,DN,LI), wh
EY-RU355F054	Room Unit, LCD, NTC,5B (+,-,ECO,FAN,C/F), wh
EY-RU355F055	Room Unit, LCD, NTC,5B (+,-,UP,DN,FAN), wh

Button info: _=dummy button, PRA=presence

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EY-RU 365: Touch room operating unit, ecoUnit365

Intuitive, local operation of room automation for optimum room climate, light and sunshade. The touchscreen shows users the correct room information at any time from the various application areas.

Features

- Part of the SAUTER modulo system family
- High quality room operating unit with touch operation and tile display
- 3.5" TFT colour display, 320x240 pixels
- Scratch-resistant, capacitive touch interface
- Navigation of up to 6 pages with up to 6 functions (tiles) each
- Intuitive operation for predefined functions (temperature, lights, blinds, fans)
- Up to 32 values/channels can be defined as a reference for BACnet objects
- Display of the energy efficiency function ("ECO 10")
- Mode and symbol displays, e.g. heating/cooling
- Audio feedback when pressed
- Supply voltage 24 VAC/DC
- SLC/RS-485 communicative interface for ecos 5, modulo 6
- Can be located up to 500 m from the automation station
- 6 digital inputs for connecting presence detector, door/window contacts, digital contact directly
- Configuration with CASE Suite (CASE Engine "EY-RU365 module configuration", RU_TOUCH module)
- Optional: Bluetooth (BLE 4.0) for using the "ecoUnit" app on a smartphone

Product Code	Product Information
EY-RU365F0A1	ecoUnit365, black, touch, NTC, 6DI
EY-RU365F0A2	ecoUnit365, black, touch, NTC, 6DI, Bluetooth
EY-RU365F001	ecoUnit365, white, touch, NTC, 6DI
EY-RU365F002	ecoUnit365, white, touch, NTC, 6DI, Bluetooth

SAUTER ecos room operating units

SAUTER ecoUnit 3 and ecoUnit 1 room operating units combine technology with design. The buttons can be freely assigned with various functions. Due to the standard internal dimensions of 55 × 55 mm, these devices fit both SAUTER frames and common frames of third-party manufacturers of light switches.

TRA 410, 421: Electronic room thermostat for heating and heating/cooling with display

Features

- Electronic room thermostat for 24 V or 230 V for heating or heating/cooling with display
- Easy to read LCD with backlight on TRA 421
- Silent-switching Triac output (24 V types)
- Easy to wire up
- NTC sensor
- Time programme and pilot clock output integrated in TRA 421
- Optimised time programme for comfort control and energy saving
- Input for heating/cooling changeover (TRA 421)
- Input for lowering the room temperature (TRA 410)
- Input for external temperature sensor
- Cooling lock function on versions for heating/cooling
- Integrated "NC" and "NO" changeover
- Modern design with ergonomic setpoint adjuster
- Restriction of temperature setting range
- Automatic frost protection facility at 5 °C and valve protection facility

Product Code	Product Information
TRA410F210	Room thermostat display Heating, 230V, ECO
TRA410F212	Room thermostat display Heating, 24V, ECO
TRA421F210	Room thermostat display H/C, 230V, ECO, time
TRA421F212	Room thermostat display H/C, 24V, ECO, time

TRT 317, 327: Electronic room thermostat for heating and heating/cooling

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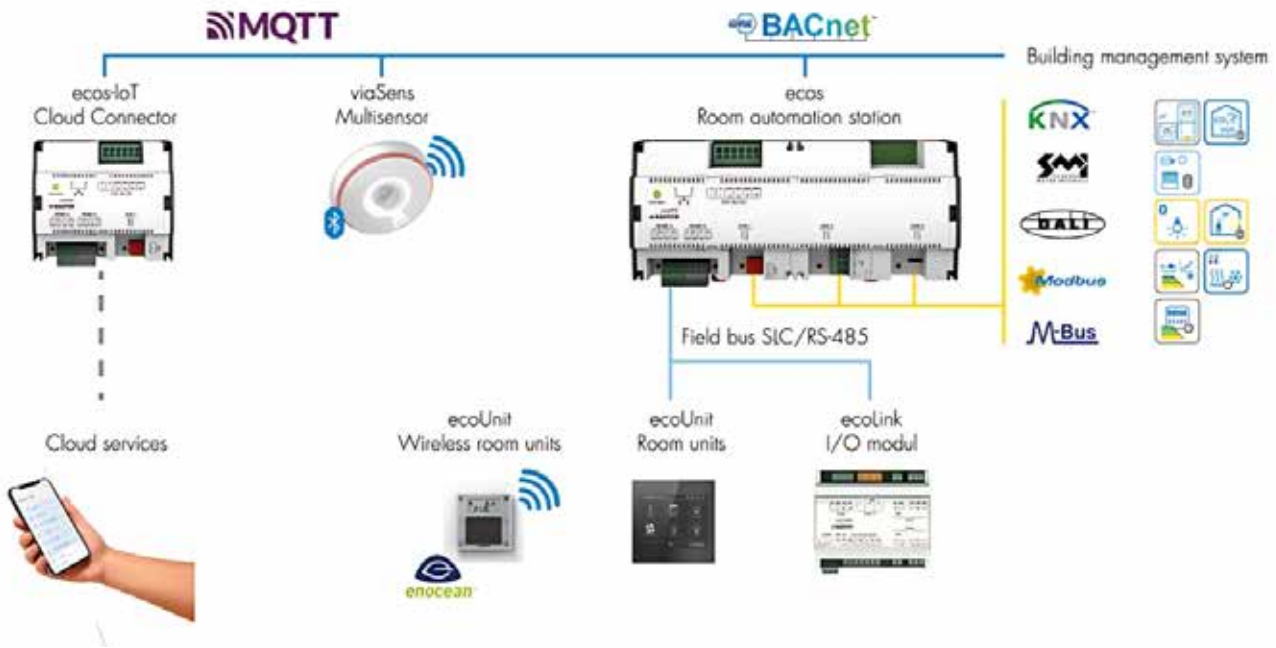
Features

- Electronic room thermostat for 24 V or 230 V for heating or heating/cooling
- Silent-switching Triac output on 24 V types
- Easy to wire up
- NTC sensor
- With input for lowering the room temperature
- With input for heating/cooling changeover (TRT 327)
- With cooling lock function on versions for heating/cooling
- Modern design with ergonomic setpoint adjuster
- With restriction of temperature setting range
- Electrical connection in baseplate with screw terminals
- With automatic frost protection facility at 8 °C and valve protection function

Product Code	Description
TRT317F210	Electr. Room thermostat 230V, ECO
TRT317F212	Electr. Room thermostat24V, ECO
TRT327F210	Electr. Room thermostat H/C, 230V, ECO, C/O
TRT327F212	Electr. Room thermostat H/C, 24V, ECO, C/O



Room automation example

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SAUTER HEATING CONTROLLERS

SAUTER heating controllers of the equitherm series are easy to operate, while ensuring that your installation meets the highest standards of energy-optimised operation. Using communication accessories, the devices can be networked together in larger plants or integrated into a building automation system. The applications for these heating controllers include weather-dependent boiler and/or supply temperature control and domestic hot water preparation, as well as heating control in local or district heating networks.

EQJW 126: Heating controller with digital user interface, Equitherm

Features

- PI supply temperature control by heating curve or 4-point characteristic
- Convenient to use with modern operating concept (turn and press) and large LCD
- Convenient weekly and annual switching programs with optimisation of switching times
- Automatic summertime/wintertime changeover
- Min./max. limitation of supply temperature and max. limitation of return temperature
- Frost-protection facility and pump and valve anti-jamming function
- Function heating (floor-drying function)
- Room temperature switching using room temperature sensor
- Ni/Pt1000 inputs for the outside, supply, return flow and room temperature
- Relay outputs with varistor suppression for activating control units and pump
- Manual mode
- Electrical connection in baseplate
- Interface for various accessories such as modem, gateway, data logging module etc.

Type designation	EQJW 126	EQJW146F001	EQJW146F002	EQJW246F002
Application				
Solar	-	•	•	•
Boiler control	-	•	•	•
Supply temperature control	•	•	•	•
Heating of drinking water	-	•	•	•
Local/district heating	•	•	•	•
Operation				
Symbol display	•	•	-	-
Graphics display	-	-	•	•
Function				
Control loops	-	•	•	•
Switching programmes	•	•	•	•
Inputs/outputs				
Inputs/outputs (0...10 V)	-			1/1
Digital inputs	-			17
Analogue inputs (Ni1000/ Pt1000)	3			17
Relay (pump/actuator)	3			11
Communication				
Interfaces				
Protocols				
Logbook	-	-	-	-

EY-RC 311: Room controller, ecos311

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Features

- Part of the SAUTER modulo system family (BACnet MS/TP)
- BACnet MS/TP communication (EN ISO 16484-5)
- BACnet room controller (B-ASC) for fan coil unit, chilled beam, chilled ceiling, radiator heater, light, control of window blinds, variable volume flow control (VAV) etc.
- Individual adjustment of the setpoints via ecoUnit 3 room operating units (EY-RU 3**)
- Optimisation of energy consumption using presence function, monitoring of window contacts, demand controlled switching of fan speeds and time-dependent setpoint specification.
- Freely configurable time programme (BACnet Schedule objects)
- Freely programmable with CASE Suite software (based on IEC 61131-3)
- Expandable with ecoLink I/O modules for lighting and control of window blinds

Product Code	Description
EY-RC311F001	ecos311 - Room Controller; B-ASC, MS/TP, 16IO, 4R4F, 230V

REGIN

REGIN BMS CONTROLLERS

Optigo - Controllers for simple applications.

A series of compact, economic and versatile stand-alone controllers without communication. They are pre-configured and intended for smaller applications. The controllers are easy to install, commission and control.

Features

- Standalone controller for heating or ventilation
- Available in 5 or 10 I/O
- Din rail or fascia mountable
- Configured from encoder knob on the hardware fascia
- 24V or 230V supply options

Product Code	Description
OP10	OPTIGO CONTROLLER 10 I/O, 24V, WITH DISPLAY
OP10-230	OPTIGO CONTROLLER 10 I/O, 230V, WITH DISPLAY
OP5U	OPTIGO CONTROLLER 51 I/O, 24V, WITH DISPLAY

Regin Advanced Controllers - Pre-programmed 24 V ventilation controller Corrigo Ardo

Corrigo Ardo are controllers for ventilation 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. It can be connected to CLOUDigo for the possibility to monitor the system from any location.

Features

- Supply voltage 24 V AC
- Easy installation: Connect the controller, set the parameters and start up
- Easy configuration using Application tool
- Communication via BACnet, Modbus and EXOline
- Versatility through number of ports and expansion units

BACnet Modbus EXOline

Product Code	Description
VCA152DW-4	CORRIGO ARDO 15 I/O'S, DISPLAY, 1 RS485, 1 WEB
VCA152W-4	CORRIGO ARDO 15 I/O'S, 1 RS485, 1 WEB
VCA283DW-4	CORRIGO ARDO 28 I/O'S, DISPLAY, 2 RS485, 1 TCP/IP, WEB SERVER
VCA283W-4	CORRIGO ARDO 28 I/O'S, 2 RS485, 1 TCP/IP, WEB SERVER
VCV203DWM-2	CORRIGO VIDO 20 I/O:S, DISPLAY, 1 RS485, 1 TCP/IP, 1 M-BUS

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Exigo Vido Controllers - Compact controllers for heating and boiler control, supply voltage 230 V AC.

Exigo Vido 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, in a cabinet door or directly on a wall.

Download and easily configure the controller via the free software Application tool. Same software for all Configurable controller from Regin. Corrigo 5, Exigo, and Regio.

Features

- Supply voltage 230 V AC
- 7 integrated relay outputs
- Easy installation: Connect the controller, set the parameters and start up
- Easy configuration using Application Tool
- Communication via BACnet, Modbus, EXOline and M-Bus
- 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

Product Code	Description
HCV191DW-2	19 I/O, 230 WITH DISPLAY, TCP/IP
HCV192DW-2	19 I/O, 230V WITH DISPLAY, TCP/IP, RS485
HCV203-DWM-2	20 I/O, 230V WITH DISPLAY, TCP/IP, RS485, M-BUS

BACnet Modbus EXOline

EXOcompact Ardo freely programmable controllers

Small and compact controller with different types of communication, with or without built-in display. EXOcompact Ardo is equipped with various communication ports. Therefore it can either act as a stand-alone unit or be integrated with Arrigo BMS or other SCADA systems.

User-friendly tools are available for flexible handling and easy access via the web server.

Product Code	Type	Description
XCA152DW-4	System HW Mid.DDC EXOCompact	EXOcompact Ardo 15 I/O's, display, 1 RS485, 1 Web
XCA152W-4	System HW Mid.DDC EXOCompact	EXOcompact Ardo 15 I/O's, 1 RS485, 1 Web
XCA153DW-4	System HW Mid.DDC EXOCompact	EXOcompact Ardo 15 I/O's, Display, 2 RS485, 1 Web
XCA153W-4	System HW Mid.DDC EXOCompact	EXOcompact Ardo 15 I/O's, 2 RS485, 1 Web
XCA203W-4	System HW Mid.DDC EXOCompact	EXOcompact Ardo 15 I/O's, 2 RS485, 1 Web
XCA282DW-4	System HW Mid.DDC EXOCompact	EXOcompact Ardo 28 I/O's, display, 1 RS485, 1 Web
XCA282W-4	System HW Mid.DDC EXOCompact	EXOcompact Ardo 28 I/O's, 1 RS485, 1 Web
XCA283DW-4	System HW Mid.DDC EXOCompact	EXOcompact Ardo 28 I/O's, display, 2 RS485, 1 Web
XCA283DWM-4	System HW Mid.DDC EXOCompact	EXOcompact Ardo 28 I/O's, display, 1 RS485, 1 Web, 1 M-Bus
XCA283W-4	System HW Mid.DDC EXOCompact	EXOcompact Ardo 28 I/O's, 2 RS485, 1 Web

REGIN

EXOcompact Eedo Freely Programmable Controllers

EXOcompact Eedo is a 230 V AC freely programmable controller. The controller provides built-in communication via EXOline, Modbus or BACnet for integration into Arrigo BMS or other SCADA systems. It can be used either as a stand-alone unit or as part of a larger system. The controller is well suited to act as a room controller and connects seamlessly to the room units in Regin's ED-RU-... series.

Features

- Three 230 V AC digital relay outputs
- Two 230 V AC digital triac outputs
- Several protocols available
- Small and compact
- Large selection of different room unit models

Product Code	Type	Description
XCE163W-1	System HW Mid.DDC EXOCompact	EXOcompact Eedo 16I/O's, 2 RS485, 1 Web, 230V Power supply

EXOcompact Vido Freely Programmable Controllers

EXOcompact Vido is a 230 V AC freely programmable controller especially suitable for heating applications. It provides built-in communication via EXOline, Modbus or BACnet for integration into larger systems. It can be used either as a stand-alone unit or as part of a larger system.

Features

- Seven 230 V AC digital relay outputs
- Suitable for many applications, especially heating and boiler control
- Small and compact controller
- Large number of communication possibilities
- Several protocols available

Product Code	Type	Description
XCV193DWM-2	System HW Mid.DDC EXOCompact	EXOcompact Vido 19 I/O's, display, 1 RS485, 1 Web, 1 M-Bus
XCV193WM-2	System HW Mid.DDC EXOCompact	EXOcompact Vido 19 I/O's, 1 RS485, 1 Web, 1 M-Bus

EXOclever Processor Unit with 4 Communication Ports

EXOclever is a versatile modular-based controller together with our additional I/O units. The controller provides communication via various ports for integration with Arrigo BMS or other SCADA system.

Product Code	Type	Description
EC-PU4-2	System HW Adv.DDC EXOclever	EXOclever processor unit, 4 communication ports

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External Room Units

The ED-RU units can be connected to several different products and could, for example, be used to control an air handling unit 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.

The ED-RU range can also be used together with EXO-products, Corrigo and Exigo. Models with display are also available in black.

Features

- A range of units with different features
- Built-in room sensor
- Range up to 300 m
- Design suitable for all environments

Product Code	Type	Description
ED-RU	Room Controllers Room Units	External room unit with setpoint offset
ED-RU-BLACK	Room Controllers Room Units	External room unit with setpoint offset
ED-RU-DFO	Room Controllers Room Units	External room unit with display, Fan speed and On/Off
ED-RU-DFOCS-BLACK	Room Controllers Room Units	External room unit w. display, Fan Speed, On/Off, built-in CO2 sensor
ED-RU-DO	Room Controllers Room Units	External room unit with display and On/Off
ED-RU-DOCS	Room Controllers Room Units	External room unit with display, On/Off and built-in CO2 sensor
ED-RU-DOCS-BLACK	Room Controllers Room Units	External room unit with display, On/Off and built-in CO2 sensor
ED-RU-DOS	Room Controllers Room Units	External room unit with display, On/Off and Select
ED-RU-F	Room Controllers Room Units	External room unit with setpoint offset and Fan speed
ED-RU-FO	Room Controllers Room Units	External room unit with setpoint offset, Fan speed and On/Off
ED-RU-H	Room Controllers Room Units	External room unit with hidden setpoint
ED-RU-H-BLACK	Room Controllers Room Units	External room unit with hidden setpoint
ED-RU-O	Room Controllers Room Units	External room unit with On/Off

REGIN

REGIN

BACnet Modbus EXOline

Regio Midi Smart Room Controllers

Pre-programmed room controllers with communication. Available with or without display.

Regio Midi is a complete pre-programmed room controller intended to control heating, cooling and CO2 in a zone control system.

Features

- Communication via RS485 (Modbus, BACnet or EXOline)
- Quick and simple configuration via Application Tool
- Easy installation
- On/Off or 0...10 V control
- Backlit display
- Input for occupancy detector, window contact, condensation sensor, CO2 detector or changeover function
- Supply air temperature limitation

Product Code	Description
RC-C3	0-10v on/off, setpoint, communication, 7i/o
RC-C3DFOC	0-10v on/off, occupancy, fan speed, display, communication, 0-10v 7i/o
RC-C3DOC	0-10v on/off, occupancy, display, communication, 7i/o
RC-C3H	0-10v on/off, hidden, setpoint, communication, 7i/o

RCF Room controller for fan-coil applications with two analogue 0...10 V DC outputs

Intended to control heating and/or cooling in 2- or 4-pipe installations. Setpoint and fan speed are set using the buttons on the front.

Features

- Supply voltage 230 V AC
- Built-in relays for a 3-speed fan, 230 V AC
- Inputs for presence detector and/or window contact
- Input for automatic change-over cooling/ heating
- Min-max supply air temperature limitation

Product Code	Description
RCF-230AD	Room Controllers Wall mount, Fan-coil controller, 230V, 0-10V, room mounting

Fan-coil controller with communication via RS485 (Modbus, BACnet or EXOline).

BACnet Modbus EXOline

Features

- 230VAC Supply Voltage
- BACnet MS/TP and Modbus RS485 communication
- On-board temperature sensor.
- Built-in relays for a 3-speed fan
- EC Fan Control - 3AO on-board
- Input for presence detector and/or window contact
- Suitable for 2 or 4 pipe systems
- Input for presence detector and/or window contact

Product Code	Description
RCF-230CAD	230v, 0-10v with communication
RCF-230CD	230v, on/off, change over with communication
RCF-230CTD	230v, thermal or 3 point with communication
RCF-230CTD-EC	230v, thermal or 3 point with communication for EC fans

Room temperature controller - AL230A

Features

- Temperature sensor and controller
- Settable for control either of heating or cooling
- Adjustable setpoint, P-band and I-time
- Discreet, stylish design suitable for all indoor environments

Combined sensor and controller

AL230A is a stand-alone unit containing both a temperature sensor and a controller. This combination helps save on component costs, resulting in a cheaper, easier installation.

Simple, easy handling

AL230A has a reversible output signal that permits control of either heating or cooling. The control mode is changed simply by moving a jumper. The setpoint is easily changed using the wheel on the right side of the casing.

Straightforward mounting

The unit is intended for mounting on a standard device box and powered by 230 V. No transformer is required.

Product Code	Description
AL230A	Room controller, temperature, 0-10v, 230v ac

15.6" Panel PC for Control Panel Mounting - DP156NX

DP156NX is a panel PC optimized for reliable operation and visualization of system interfaces. It is intended for mounting in a control panel. The DP156NX panel PC works as a stand-alone computer or as a web browser. It enables system integrators to work with the whole range of Regin system solutions, from the Arrigo platform to visualizing the integrated web server of configurable controllers.

Features

- IP65 sealed and designed for long operational lifetime in harsh environments with features such as fanless cooling and flash disc.
- Double 10/100/1000 Mbit LAN
- Industrial LED display
- High responsiveness through capacitive multitouch

Product Code	Description
DP156NX	15,6" panel PC

External Handheld Touch Display for Controllers with Web Interface - ED-T70W

ED-T70W is a user friendly touch display. With just a few clicks it connects to a controller with a web interface. It is suitable for all indoor environments.

Features

- Capacitive touch display with high resolution
- Clear and easy interaction
- For controllers with web interface
- Flush mounted or mounted in cabinet door.

Product Code	Description
ED-T70W-2	External touch display for controllers with web interface

REGIN

External 7 inch Touch Display for Exigo, EXOcompact and EXOclever

ED-T7 is a touch screen display and configuration unit intended for connection to a controller. The display offers full control of controllers that are, for example, mounted inside of a cabinet.

Features

- Capacitive touch display with high resolution
- Easy to use
- Connects to the display port on the controller
- Up to 8 rows of information can be displayed on the screen for some applications
- Display adapts automatically to the program

Product Code	Description
ED-T7	System HW, HMI, Touch Screen, 7 inch

External Display Unit for Exoclever, Corrigo, Exocompact C...-3 and Exigo

External display unit for operation of a third generation Corrigo E or EXOcompact, with or without built-in display and buttons. E3-DSP offers full external control of controllers mounted inside of a cabinet, etc.

Features

- Can be used with third generation Corrigo E or EXOcompact
- Possible distance of up to 100 m between controller and display unit
- Internal and external display can be used simultaneously
- Casing designed for mounting on wall, device box or cabinet front

Product Code	Description
E3-DSP	External display

Cable must be ordered separately.

RCX Room Controller

Regio RCX series are controllers with built-in sensors and an RS485 communication port. Controllers in different rooms and zones can be connected to a field bus enabling communication with a central SCADA system, via RS485 (EXOline, BACnet, or Modbus) .

They can also be used as stand-alone controllers for control of heating and cooling in a single zone or room. The stand-alone Regio controllers can be configured for a specific application via the Regin:GO app (in most cases).

Features

- Elegant and slim design, which provides the ability to seamlessly install in design-critical environments
- Display showing relevant information and which enables visibility on adistance. Easy to keep clean.
- Built-in sensors, which measure all relevant data in the same casing. Such as, temperature, humidity, CO2, VOC, and PIR
- Flexible application, where you can configure almost every possible room application, without programming knowledge
- Easy configuration, with wireless communication using the Regin:GO app
- Removable terminal, which simplifies troubleshooting
- Back plate with terminals allows installation without electronics in an unclean environment

Please note:

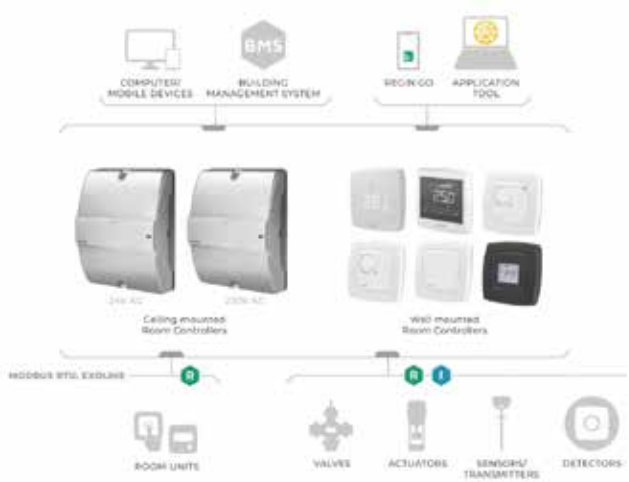
The room controllers consist of two parts:

- Front and PCB assembly
- Wall mount assembly (including terminals)

The wall mount assemblies are sold separately.

- Low (for mounting over appliance box), RCX-BL
- Mid (for on-wall mounting), RCX BM

Product Code	Display	Buttons	Temp. Sensor	Humidity Sensor	C02 Sensor	VOC Sensor	PIR Sensor
RCX-T	-	-	X	-	-	-	-
RCX-TC	-	-	X	-	X	-	-
RCX-THCVP	-	-	X	X	X	X	X
RCX-T-D	X	X	X	-	-	-	-
RCX-TH-D	X	X	X	X	-	-	-
RCX-TC-D	X	X	X	-	X	-	-
RCX-THCVP-D	X	X	X	X	X	X	X



Fidelix

AN EFFICIENT AND SCALABLE TOOL FOR COMPLETE CONTROL OF BUILDING TECHNOLOGY.

The reliable and reliable Fidelix building automation system guarantees a long life cycle for buildings of all types and sizes. Fidelix service concept is based on one entity that can be managed as efficiently as possible.

The system based on open interfaces forms an easily manageable, compatible and energy-efficient building technology solution. Fidelix's reliable and cost-effective system solution is proof of the progress of Finnish product development and project expertise.

Founded in 2002, Fidelix has developed an intelligent, reliable and widely compatible building automation system from the beginning. Today, Fidelix expertise in intelligent building automation benefits customers, e.g. in the form of better indoor conditions, lower energy consumption and lower maintenance costs.

FDX Compact – BMS Controllers and Displays

The cornerstone of Fidelix's smart building automation is the FDX Compact series. It is an easy-going and flexible product family that speeds up installations and commissioning at the destination. Usability is intuitive and logical thanks to the clear touchscreen user interface.

Features

- Adjustment, control, measurement and input modules for both analogue and digital signals
- 15.6-inch touchscreen
- Freely programmable central unit with versatile bus options

FX-3000-C - All-in-one BMS controller

Full control, ultimate compatibility.

Features

- Freely programmable PLC
- Webserver, history logging, energy reports, trending, weather forecast anticipation, user management, ...
- BACnet, Modbus and M-Bus communication
- Integrated WiFi router (802.11b/g/n) with WPS
- DIN-rail mountable

Product Code	Description
FX-3000-C	Controller, built-in router, IEEE 802.1X support

FX-3000-X - Building Automation System Controller

All-in-one Linux building automation system controller

Features

- Freely programmable Linux-based controller
- Modern web user interface
- Support for Modbus and M-Bus communication
- Integrated WiFi router (802.11b/g/n)
- TOSIBOX® Readiness feature for secure remote access
- DIN-rail mountable

Product Code	Description
FX-3000-X	Dual core ARM Cortex-A9, 1.0 GHz processor 512 MB DDR3 RAM (64 bit), 4 GB eMMC Flash Linux-based operating system

IBC stock over 2500 products ready for immediate delivery

2005

Serving the (BMS & HVAC) Industry since 2005

FX-SPIDER-40/10 - Central control unit. Fast, intelligent, clear and easy-to-use local control.

Full control, ultimate compatibility.

Features

- 40 integrated I/O's and a 10.1" touch screen.
- BACnet, Modbus and M-Bus protocols.
- Available with and without display.
- Ideal for smaller projects e.g. school boiler houses.

Product Code	Description
FX-SPIDER-40	The FX-SPIDER-40/10 central controlling unit for building automation and security applications is a special version of it's brother, the FX-3000-C. Dedicated for small processes, narrow spaces and all-in-one solutions, it features a 10.1" touch screen showing HTML-graphics, a powerful processor to run your programs, and 40 built-in I/O-points, thus being everything you need to get your project up and running. The FX-SPIDER-40/10 uses the IEC-61131-3 standard for PLC programming. Connect the standard European plug to a wall socket and get going in no time to discover the true meaning of plug and play!
FX-SPIDER-40-10	FX-Spider-40 plus display.

FX-SPIDER-X – NEW! Central control unit with 40 I/O's

Features

- Linux-based controller
- 40 integrated I/O-points
- 10.1" touch screen
- Modbus and M-bus communication
- Webserver, history logging, energy reports, user management
- Integrated WiFi router (802.11b/g/n) with TOSIBOX® Readiness

The FX-SPIDER-X is a Linux-based central control unit for building automation, designed for small processes and compact spaces. It has a 10.1" touch screen with HTML graphics, a powerful processor, and 40 built-in I/O points. Featuring TOSIBOX® Readiness for secure remote access via VPN, it supports IEC-61131-3 PLC programming. Simply plug it in to start—no additional hardware needed, offering true plug-and-play functionality.

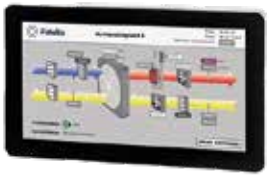
Product Code	Description
FX-SPIDER-X	Linux-based Central control unit with 40 integrated I/O's and a 10.1" touch screen.

FDX Compact VISIO Touch screen display

Features

- HD HMI running Android
- Multi-touch support
- Ethernet and Wi-Fi connection
- User friendly built-in application to connect to Fidelix-controllers

Product Code	Description
VISIO-10-X	Screen size: 10.1 Inch, Aspect ratio: 16:10, Resolution: 1280 * 800 pixels, Viewing angle: 85/85/85/85, Number of colours: 16.7 million, Contrast ratio: 800:1, Brightness: 300 cd/m2, Power supply voltage: 24 VDC (+/- 10%), Power consumption: max. 750 mA (typically < 500 mA), (max. 18W @ 24 VDC), CPU: Rockchip RK 3566, Quad-core Cortex-A55 1.8GHz, RAM: 2 GB DDR3, Storage: 16 GB NAND flash, OS: Android 11, Card slot: µSD cards up to 32 GB, Wi-Fi: 802.11b/g/n, Ethernet: 10/100 Mbps autodetect, USB: 2 x USB, IP-class: 44 (when door mounted).
VISIO-15-X	Screen size: 15.6", Aspect ratio: 16:9, Resolution: 1920 * 1080 pixels, Viewing angle: 85/85/85/85 degrees, Number of colours: 16.7 million, Contrast ratio: 800:1, Brightness: 300 cd/m2, Power supply voltage: 24 VDC (+/- 10%), Power consumption: max. 750 mA (typically < 500 mA), (max. 18W @ 24 VDC), CPU: Rockchip RK 3566, Quad-core Cortex-A55 1.8GHz, RAM: 2 GB DDR3, Storage: 16 GB NAND flash, OS: Android 11, Card slot: µSD cards up to 32 GB, Wi-Fi: 802.11b/g/n, Ethernet: 10/100 Mbps autodetect, USB: 2 x USB, IP-class: 44 (when door mounted).



EasyIO Controllers

The EasyIO F Series forms the core of these programmable controllers with features to deliver security, connectivity and programmability. **NO license fees, no recurring fees, EVER!**

- Unlicensed programming tool
- SQL Lite database
- Built-in HTML graphics
- Built-in BACnet server and client on IP and MS/TP, Modbus server on TCP, and RTU
- Supports Modbus, BACnet, TCom, RESTful API, and MQQT
- Built-in OpenVPN server/client

FS SERIES

With a 1.2 GHz quad core processor, 512MB RAM, 8GB flash memory, HTML graphics, a suite of applications and kits, and multifunctional widgets, the EasyIO FS provides unparalleled performance and allows for flexible design, enabling secure integration at both BMS and IoT levels.

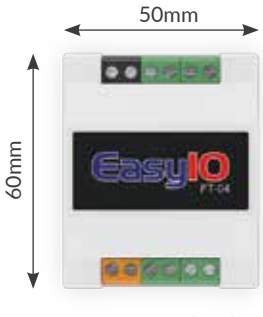
Product Code	Product Information
EasyIO-FS-32	EasyIO+C6:H20 Server Class multi protocol Controller, 32 Points, 16UI, 8UO, 8DO Quad core processor, HTML5 graphics
EasyIO-FS-20	EasyIO Server Class multi protocol Controller, 20 Points, 12UI, 6UO, 2DO Quad core processor, HTML5 graphics

FW SERIES

The EasyIO FW (WiFi) series has the latest IT network and security standards and can be used as part of an existing network or as an isolated BMS network with WiFi. The FW series supports BACnet IP client/server, BACnet MSTP client/server, and Modbus TCP/ RTU M/S, as well as Sox, TCOM, P2P and MQTT. The FW series also features HTML5-ready dashboards and can be programmed live via CPT.

Product Code	Product Information
EasyIO-FW-28	EasyIO WiFi Controller, 28 Points, 16UI, 4AO, 8DO, Bacnet IP & MSTP/Modbus RTU, HTML5 dashboards
EasyIO-FW-14	EasyIO WiFi Controller, 14 Points, 8UI, 4AO, 2DO. Bacnet IP & MSTP/Modbus RTU, HTML5 dashboards
EasyIO-FW-08	EasyIO WiFi Controller, 8 Points, 4UI, 4A0, Bacnet IP & MSTP/Modbus RTU, HTML5 dashboards
EasyIO-FW-08V	EasyIO WiFi VAV Controller, 8 Points, 4UI, 4AO, built-in pressure sensor, Bacnet IP & MSTP/Modbus RTU, HTML5 dashboards
EasyIO-FW-ANT-1	Single Antenna with cable and Magnetic base
EasyIO-FW-ANT-2	Double Antenna with cable and Magnetic base

FT SERIES



The FT-04 product range is a versatile, small form factor controller. WiFi only, it can be used to extend control to hard to reach equipment, utilized in small spaces, localized lighting control, remote IO, temperature control and monitoring, on/off control of equipment, residential applications or just about anything that needs connectivity, and supports live programming and commissioning.

Product Code	Product Information
EIO-FT-04A-5	EasyIO Controller, 4 points (2 x UI, 2 x AO), Bacnet IP, WiFi, Sedona, HTML5 dashboard - 5 units
EIO-FT-04B-5	EasyIO Controller, 4 points (2 x UI, 1 x AO, 1 x DO), Bacnet IP, WiFi, Sedona, HTML5 dashboard - 5 units
EIO-FT-CLIP-5	Din-Clips 5 pieces

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

HMI DISPLAYS

10" and 7" Android touch panels with Wi-Fi & Ethernet

Providing a slim and sleek profile for easy mounting, the device is equipped with an advanced processor for smooth and high-speed performance. These android touch panels feature a large capacitive touch screen for easy viewing.

Product Code	Product Information
EI-SH-SysView10	Touch Panel SH-SystemView10 with Wifi, Ethernet, 10 inch new design, with bracket
EI-SH-SysView7	Touch Panel SH-SystemView7 with Wifi, Ethernet, 7 inch new design, with bracket

Imagine the possibilities– and make them real

Discover a breakthrough approach to controlling systems and buildings. Use the EasyIO platform to control an application or an entire system, a piece of equipment or an entire plant, a room or an entire building. With open standards and open source features, EasyIO helps deliver optimal facility performance.

TOSIBOX SOLUTION GROWS FROM SECURE REMOTE ACCESS TO GLOBAL OT NETWORKING

Tosibox has automated secure connectivity and made it simple. It is a standardized way of building VPN connections based on a patented connection method. The configuration-free Plug & Go™ implementation is easy and ready to use within minutes. The unique feature of TOSIBOX® technology is the two-way connectivity that brings the benefits of IP networking plus remote maintenance with one technology.

The game-changing solution consists of globally patented point-to-point data flow between ends allowing for a secure connection and associated marriage between two modules. The communication is end-to-end encrypted and not decrypted at any point along the way. A third-party cloud service is not included, but you can choose your own cloud or server, wherever you want.

Do it Easily.
Build and manage secure OT infrastructure in minutes

Do it Automatically.
Connect anything, anywhere - all automated.

Do it Cybersecurely.
You own the data and it's always encrypted.

TOSIBOX® solution consists of modular components that offer unlimited expandability and flexibility. All components are compatible with each other as well as internet connection, operator, and device agnostic. The solution works both in internal and external networks, and you can connect both modern IoT devices and legacy systems.

- TOSIBOX® Node is an industry router or a software sharing access to devices.
- TOSIBOX® Key is a client used to access the network.
- TOSIBOX® HUB is the platform for OT network and access rights management.
- TOSIBOX® Platform is a hosted management layer that turns operational applications, machines and their users into a controlled OT network.

TOSIBOX PLATFORM

Tosibox Platform solves today's most common problems in building your OT infrastructure: Cost, Complexity and Cyber Security. Tosibox Platform is an automated and open cybersecurity platform for your operational technology networks and infrastructure. It scales from one user and one device to an enterprise-level OT network solution with hundreds or even thousands of users, devices, and sites connected. It fits all industries and organizations, regardless of the size or vertical, and is designed to meet your needs today and well into the future.

This dedicated platform enables you to you to manage and grant access rights to your operational systems from a single point, effortlessly without the need for software installations or complicated network configurations.

Tosibox Platform offers two subscription models, "Full Subscription" and "Hybrid". You can subscribe to only what you need. To learn more, please contact our sales or check out the Tosibox Platform data sheet from www.tosibox.com.

CERTIFIED CYBER SECURITY

Tosibox is ISO27001 certified, underlining the importance we place on protecting customers´ data. Platform security is based on automated firewall settings and point-to-point VPN technology with 256 Bit AES data encryption. Tosibox Platform supports Layer 2 and layer 3 routing functions and protocols.

TOSIBOX™

As a building service provider, you want to benefit from an operational network that is cyber secure that also provides state-of-the-art, real-time services. While real estate properties are often geographically dispersed in several locations, the TOSIBOX OT network can connect all of your building systems into the same platform, allowing you to streamline your operations so you can focus on developing and managing your daily service operations in a cost-effective manner.

TOSIBOX® LOCKS

Product Code	Product Name	Product Information
TBL21	TOSIBOX® LOCK 210	with or without power source
TBL25	TOSIBOX® LOCK 250	with or without power source, integrated WiFi
TBL5	TOSIBOX® LOCK 500	with or without power source
TBL5iA	TOSIBOX® LOCK 500i (EU/US)	with or without power source
TBL5iB	TOSIBOX® LOCK 500i (APAC)	with or without power source
TBL5iC	TOSIBOX® LOCK 500i (USA/ CAN/EMEA)	with or without power source
TBL175	TOSIBOX® 175	Built-in 4G modem, WAN, LAN, WiFi. Throughput 70 Mbit/s. 4 year Perpetual License.
TBL610UK	TOSIBOX® 610	WAN, LAN. Throughput 70 Mbit/s. 4 year Perpetual License.
TBL650UK*	TOSIBOX® 650	WAN, LAN, WiFi. Throughput 70 Mbit/s. 4 year Perpetual License.
TBL670UK*	TOSIBOX® 670	Built-in 4G modem*2 SIM slots, WAN, LAN. Throughput 70 Mbit/s. 4 year Perpetual License.
TBL675UK	TOSIBOX® 675	Built-in 4G modem*2 SIM slots, WAN, LAN, WiFi. Throughput 70 Mbit/s. 4 year Perpetual License.
TBNODEM	Additional Maintenance Fee	Extended maintenance after 4 years for TOSIBOX® Nodes in remote access use. • Not needed with VCL Nodes • for 1 year (annual fee)
TBL350	TOSIBOX® 350	WAN, LAN, WiFi. Throughput 10 Mbit/s. 4 year Support & Maintenance License
TBL375	TOSIBOX® 375	Built-in 4G modem, WAN, LAN, WiFi. Throughput 10 Mbit/s. 4 year Support & Maintenance License

* End of Sales unit. Last date for ordering is July 31st 2025 subject to stock availability.
Tosibox 350, Tosibox 375 and Tosibox 675 are recommended replacements.

TOSIBOX® KEY OPTIONS

Product Code	Product Name	Product Information
TBK2	TOSIBOX® KEY	with Mobile Client
TBSKL1	TOSIBOX® SOFTKEY LICENSE	1 piece (also available in 5 pieces / 10 pieces)
TBMC1	TOSIBOX® MOBILE CLIENT	1 piece (also available in 5 pieces / 10 pieces)

TOSIBOX

TOSIBOX

TOSIBOX® ACCESSORIES

Product Code	Product Name	Product Information
TB3GM2M	3G USB-Modem, Huawei	with one antenna connector
TBRFA-CRC9	Adapter Cable	3G Huawei modem to antenna
TB4GM	4G USB-Modem, Alcatel	with two antenna connectors
TBRFA-TS9	Adapter Cable	Adapter cable used with Alcatel 4G modem for antenna connection
TBANT1	Antenna, external	omni-directional with 8m cable
TBANT2	Antenna, external, magnet	omni-directional with 3m cable
TBAEC-L5	Antenna Extension Cable	Length 5m
TBAEC-L10		Length 10m
TB4GM8EU	TOSIBOX 4G Modem	European version Lock 150/200/500

TOSIBOX® CONNECTION ADAPTERS

Product Code	Product Name	Product Information
TBPBA1	Profibus Adapter	PROFIBUS Ethernet Gateway – MPI/PPI/ PROFIBUS
TBRSA2	Moxa, NPort 5110	1-port RS-232 serial device
TBL5-AP1	Accessory Pack Lock 500 (EMEA/APAC)	Including: 2 X WiFi antenna, 2 x LTE antenna, AC adapter including EU, UK, US/JP, AUS connectors and DC feed cable
TBL5-AP2	Accessory Pack Lock 500 (USA/ CAN)	Including: 2 X WiFi antenna, 2 x LTE antenna, AC adapter including EU, UK, US/JP, AUS connectors and DC feed cable
TBMBD1	DIN-mounting Bracket	for TOSIBOX® Lock 100/150

Discover the Possibilities

At MBS, we've been shaping the future of building automation for over 35 years. We provide seamless integration across all systems, ensuring your projects communicate effortlessly. Whether it's consulting or certified lab services, our comprehensive expertise covers every need, giving you the freedom to explore what's possible.

Here's what sets us apart:

- **Gateways:** Supporting all major communication protocols/adaptable to specific needs
- **Routers:** Seamlessly route between BACnet MS/TP, IP and /SC
- **Hardware & Software Solutions:** From development to OEM support
- **Global Presence:** Solutions made in Germany, used worldwide
- **In-house Repair Center:** Fast and reliable service
- **Accredited Testing Labs:** For BACnet and DALI protocols
- **Comprehensive Support:** Commissioning and project planning
- **Training & Workshops:** Knowledge transfer made easy
- **Development & Manufacturing:** End-to-end production for quality control
- **Member of Leading Industry Associations:** Keeping us ahead of the curve

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