



PART OF  
REGIN GROUP 

# OPEN Secure automation stations

For secure & intelligent building automation

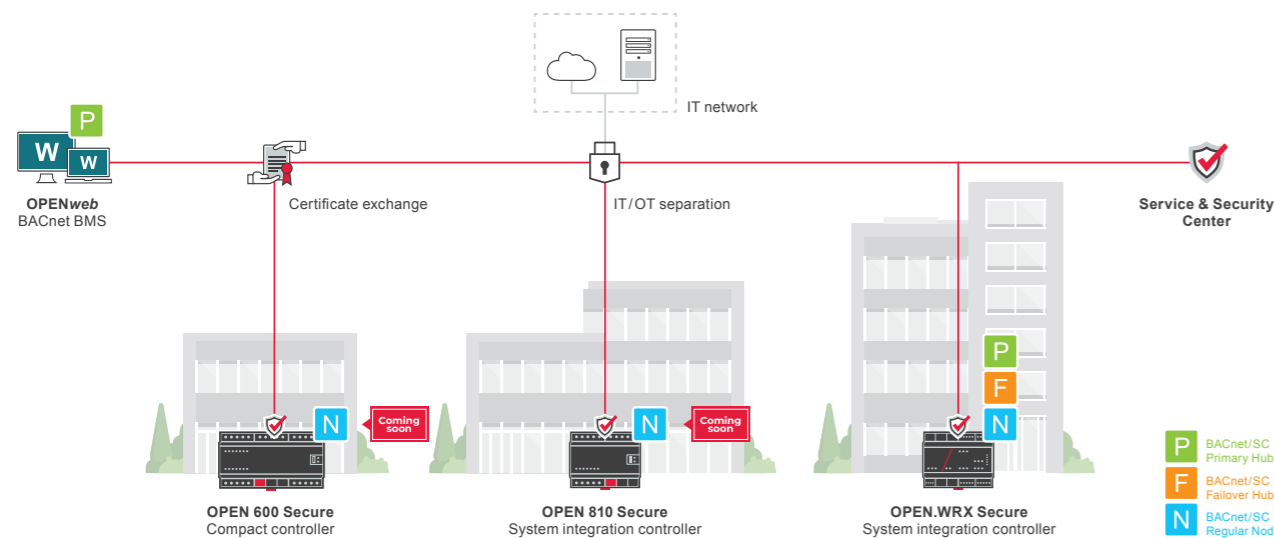
# Automation stations – versatile and secure

## Central intelligence in buildings

The OPEN Secure automation stations provide the central intelligence in your building as cloud ready controllers. They are used for integrated building and room automation and special HVAC applications. The main task of the automation stations is the control, regulation and monitoring of your technical building systems and to ensure optimum energy efficiency.

The OPEN Secure platform promises to reduce energy costs in buildings and increase comfort for building users at the same time. System graphics are called up directly from the automation station via the integrated HTML5 web server OPENview. In order to protect all important systems and data from attackers in the best possible way, our DEOS products have been offering an integrated security foundation for years – by design – that is convincing across all levels of building automation. Various security mechanisms are already preconfigured at automation level via the user-friendly Service & Security Center, but can also be individually adapted. Your building, your rules! An integrated, configurable firewall in all automation stations and encryption of data transport via https and BACnet/SC through to the BMS ensure the highest possible level of security and authorised access.

From low-cost compact controllers to high-performance system integration controllers: you will find the ideal automation station for your project in the DEOS portfolio.



- ✓ **High energy efficiency** – Building automation can be implemented up to energy efficiency class A (German implementation of the EPBD)
- ✓ **Integrated security solutions** – Maximum security thanks to integrated firewall and encrypted communication (BACnet/SC, HTTPS) through Service & Security Center
- ✓ **Versatile protocols & interfaces** – Powerful hardware with a wide range of interfaces and all common system integration protocols
- ✓ **High level of convenience** – Graphical operation via integrated OPENview web server
- ✓ **Time-saving programming** – Save up to 90 % of your time when programming systems with the DEOS libraries
- ✓ **Sustainable investment security** – Durable hardware with long-term availability and high quality (Made in Germany)
- ✓ **Comprehensive certifications** – Certified according to standards such as BACnet / BTL / AMEV B / WSPcert / Fraport / CSA / CE / VDE
- ✓ **Free programmability** – Guarantees maximum flexibility in your projects

# Security in building automation

## Secure automation stations with the Service & Security Center

Every building automation system requires components that are secure and protect against third-party access. This necessary IT protection is expensive and often requires a lot of IT expertise. With the Service & Security Center and its security features, the OPEN Secure automation stations from DEOS AG offer a simple and pragmatic solution.

The security settings in the Service & Security Center are easy to use. If desired, users on the OPEN Secure can be created and managed with an expiration date. In addition, the user can choose between three firewall modes: inactive, maintenance and operation. Preconfigured security settings for the individual application can also be set. Expert mode offers employees with IT expertise additional firewall settings. Changes to the configuration as well as the login and logout processes are saved and recorded. In summary: the functions of the Service & Security Center can be operated by any employee even without prior IT knowledge.

The image shows a laptop displaying the Service & Security Center web interface. A red dashed box highlights the 'Firewall mode' dropdown menu, which is currently set to 'Inactive'. Other modes visible are 'Maintenance' and 'Operation'. A physical DEOS device is shown to the right of the laptop. A legend below the image lists the following features:

- Easy-to-use professional IT protection
- No IT expertise required
- Security thanks to firewall, certificates and HTTPS
- Import and export of configuration files
- Clientless access via standard browser
- Delivered in preset condition for reliable operation
- Free security upgrades of older controllers in existing systems can also be carried out

DEOS Secure Connect box



### Security in the cloud

With DEOS Connect boxes for the implementation of cloud projects or site networking, we make your building automation network additionally secure against external access! The high security standards such as firewall functions and encrypted communication ensure that your system is optimally protected against cyber attacks. Since the Connect boxes are already preconfigured, you do not need any additional IT know-how to set them up. With the Service & Security Center and the firewall functions of the Connect boxes, we protect your building automation network twice over. Building automation has never been so secure!





## Versatile system integration

### Take advantage of the openness of OPEN Secure systems

System integration made easy – the prerequisite for simple and safe operation and control of room and building automation is the combination of BA components to form a complete system. Using standardised communication protocols and interfaces, the OPEN Secure automation stations stand for reliable and powerful building automation and enable simple and economical integration of existing systems in buildings (retrofit) as well as in new projects. **A large number of standardised interfaces and protocols are available:**

TCP/IP	RS-485	RS-232
<ul style="list-style-type: none"> <li>✓ BACnet IP</li> <li>✓ Modbus TCP</li> <li>✓ M-Bus*</li> <li>✓ KNX*</li> <li>✓ LON*</li> <li>✓ DALI-2*</li> <li>✓ SMI*</li> <li>✓ and further via gateways</li> </ul>	<ul style="list-style-type: none"> <li>✓ BACnet MS/TP</li> <li>✓ Modbus RTU</li> <li>✓ Grundfos pumps</li> <li>✓ EBM Pabst fans</li> <li>✓ DALI-2*</li> <li>✓ and further via gateways</li> </ul>	<ul style="list-style-type: none"> <li>✓ BACnet-PTP</li> <li>✓ KNX*</li> <li>✓ M-Bus*</li> <li>✓ and further via gateways</li> </ul>

\*via gateway or level converter

#### Flexible expandable controllers

Simply contact us if you encounter non-standardised communication interfaces in your project. We are also happy to help you with the connection or successful implementation.

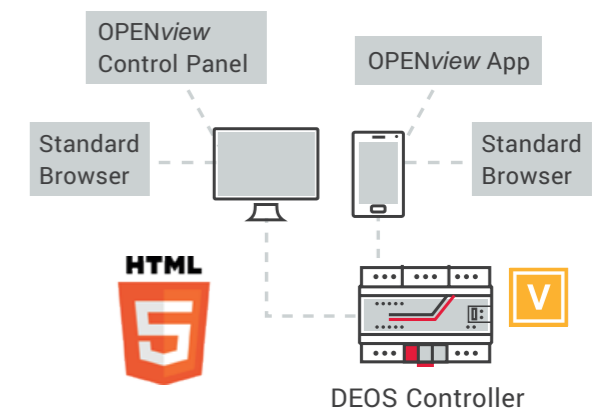
## Integrated HTML5 OPENview web server

### Graphical system monitoring with BMS basic functions

OPENview is the powerful HTML5 web server from DEOS that is available to you on all automation stations of the OPEN Secure family. The graphical visualisation and operation with OPENview is particularly user-friendly and simple. Thanks to the basic BMS functions, OPENview is ideal for small projects.

There are no limits to your flexibility – use the OPENview web server platform-independently (PC, tablet or smartphone), and access it decentrally via internet or intranet. You can monitor your DEOS controllers at all times and always operate your buildings at the optimum energy efficiency levels.

OPENview enables you to visualise and access the parameters for heating, ventilation and air conditioning as well as light, shading and temperature. It is also easy and intuitive to operate. The range of functions of the HTML5 web server OPENview meets the requirements for simple or singular building structures. If these requirements should increase during the course of the project, you can use our Cloud BMS OPENweb Cloud economically from 100 data points. This way, you can benefit from all the features of a comprehensive BMS.



#### Flexible and user-friendly

For control with OPENview, the user can use any internet browser. The **OPENview ControlPanel visualisation program** and the **OPENview App** are also available for the graphical operation of all current android smartphones. In addition to this software solution, DEOS AG offers the Android Touch PC (10.1"/15.6"/21.5") as a practical control unit for installation in switch cabinets.

#### OPENview, OPENweb or OPENweb Cloud?

We will be happy to advise you so that you too can find the right system monitoring for your individual project. Feel free to contact us! Together we will work out a solution for you:

✉ [partner@deos-ag.com](mailto:partner@deos-ag.com)

# Practical IO modules

## More project flexibility

With the DEOS IO modules you can flexibly expand the available inputs and outputs of the OPEN Secure family. A total of 16 different versions of the OPEN IO modules are available. Whether as analogue or digital module, as IO combination module or pure input or output module – you will find the right module for your project! The OPEN IO modules, which have a modular design and feature powerful communication properties, are ideally suited for all controller applications for technical building automation. They are compact, easy to install and can be universally used and combined with various measuring elements.

### Easy connection in the field

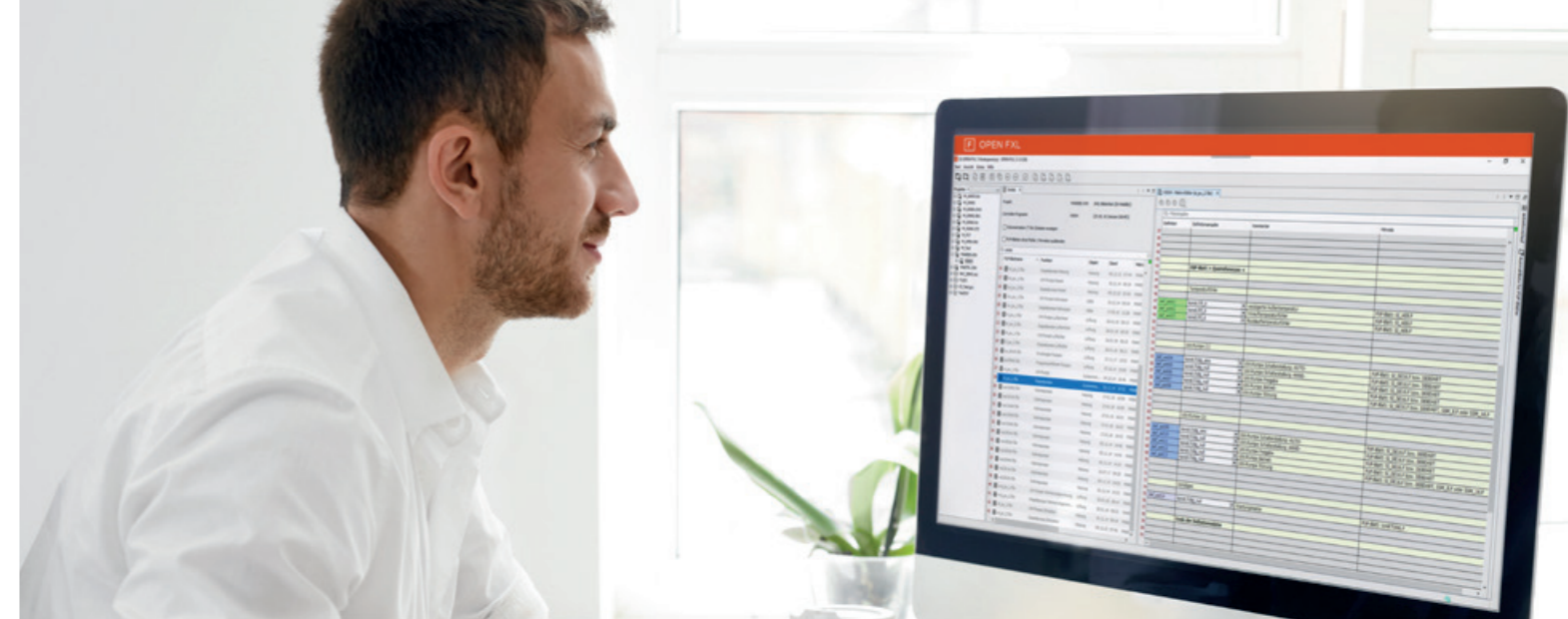
DEOS IO modules are connected to the OPEN Secure automation station via the CAN bus (Controller Area Network) – the most widely used bus system for networking control units. This bus system can accommodate up to 99 DEOS IO modules per line, ensuring high flexibility for future expansion. The bus speed depends on the distance of the IO modules to the controller and is up to 1 Mbit/s depending on the bus quality.



### Practical benefit

Manual operation via push buttons on the modules enables clever adjustment of the output voltage in the event of service directly on site and fulfils the function of local priority operation.

- ✓ Compact design for space-saving integration in the switch cabinet
- ✓ Manual CAN bus address switches on the IO modules
- ✓ CAN-bus communication with up to 1 Mbit/s for a length of up to 5 km
- ✓ IO modules feature LED status displays
- ✓ 24-bit AD converters on digital IO modules, either with transistors or relay outputs
- ✓ A total of 16 variants as digital, analogue or combination modules
- ✓ Spring terminals enable the quick replacement of IO modules on the DIN rail
- ✓ Various IO modules available for wall and DIN rail mounting
- ✓ Convenient manual operation that can be overridden from a central location
- ✓ According to EN ISO 16484-2:2003 and VDI 3814



# Easy programming of the automation stations

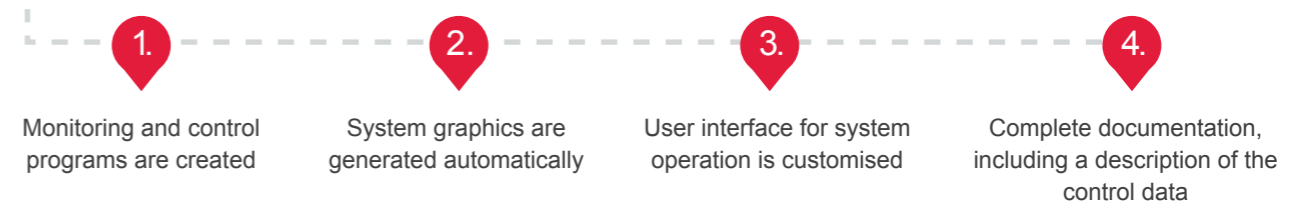
## Time-savings of up to 90% during programming

The FXL is the central tool for comprehensive and time-saving system programming. With this graphical programming tool, you can freely program your systems according to your individual project requirements. This offers maximum flexibility and forms the powerful basis for convenient, fast and reliable system programming.

Your time is precious – that's why we focus on functions that reduce your efforts and make your daily work easier. For example, you can simultaneously load a large number of automation stations with ready-made control programs or firmware, even during system operation via an online session. In addition, the program simulation allows functions to be tested and helps with troubleshooting. Programming using the DEOS libraries is also much more time-saving, allowing you to reduce your effort by up to 90%.

### Graphical programming with macros and templates

Reach your goal quickly and error-free – that's exactly what graphical programming and the macro and template library from DEOS AG can do. With over 1,000 pre-programmed and tested system modules (macros) and more than 300 completely finished HVAC systems (templates), you can reduce your programming effort by up to 90%. The tools support the programmer in their work, e.g. with the necessary programming steps, troubleshooting and system documentation. In this way with DEOS a total of 4 work processes are completed in one step:



A plausibility check is carried out afterwards to examine the project for possible sources and can then be loaded directly onto the automation station. System graphics are also stored on the automation station after the upload and are retrieved by the DEOS BMS OPENweb or the integrated web server OPENview. In this way, we guarantee a uniform display on your end devices – **system programming is only that simple with DEOS!**



# Powerful open system solution

## BACnet compact controller OPEN 600 EMS basic24

The product version is based on the OPEN 600 automation station and is a cost-effective controller designed for small HVAC systems. This automation station is also perfect for use as a BACnet single room unit. It features 24 integrated digital and analog inputs and outputs and an ideal economical design for these applications.

Thanks to the communication via BACnet IP, this automation station is the perfect choice for use in both existing buildings and properties as well as in new projects. The secure remote access and remote monitoring via the integrated graphic HTML5 web server make it easy to operate HVAC systems and individual rooms. The representations are rendered in FULL HD resolution as usual.



The **OPEN 600 EMS basic24** uses the system openness of the entire DEOS OPEN EMS platform (BMS, energy management, etc.) and is seamlessly integrated into the DEOS overall concept for intelligent buildings.

### ✓ Native BTL-certified (B-BC profile)

The OPEN 600 EMS basic24 is designed as a native BACnet building controller (B-BC) for use in a wide range of areas, including hotels, office buildings, universities and museums, etc.

### ✓ Graphic operation: OPENview intuitive operation

The systems equipped with BMS functions are operated using graphics (in full HD) via the integrated OPENview web server. The HTML5-based technology lets you use any browser and mobile device.

### ✓ Use of Macros & Templates from the DEOS libraries

The free programming provides you with maximum flexibility in your project. At the same time, we offer you a comprehensive macro library and pre-tested templates for cost-saving project planning.

### Technical highlights

- 8 analog & 8 digital inputs
- 4 analog & 4 digital outputs



✓ For small HVAC systems – as a stand-alone as well as an integrated controller and single room controller

✓ Cost-effective BACnet compact controller with analog and digital IOs

✓ Including full HD graphic HTML5 web server with BMS functions

✓ Programming is up to 60 % faster via the DEOS OPEN FXL project planning software

✓ Ideal for existing buildings and properties as well as in new projects

✓ BTL-listed (profile B-BC) as well as AMEV attestation (profile B)

• 24 onboard integrated inputs and outputs

• BACnet IP and MS/TP support

• Up to 250 BACnet objects

• Protocols: BACnet, M-Bus, MODBUS, KNX, ...

• Interfaces: 2xRJ45, RS232, RS485

• Integrated 2nd Ethernet port for easy serial wiring (daisy chain)

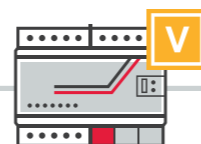
• Freely configurable status LEDs (red/green)

• SMS and e-mail dispatch directly from controller

• Documentation directly on the controller



Secure remote access via the internet web server



OPEN 600 EMS basic24

BACnet • MODBUS  
KNX • M-Bus



For small HVAC systems and BACnet single room controller

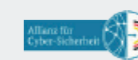
# OPEN.WRX AS

## Efficient system integration and maximum safety

In the future of building automation, there are some special challenges to be overcome: Due to the shortage of skilled workers in the industry, high work efficiency will be more important than ever in the future. IT security is also becoming more and more important due to the increasing networking in building automation projects, which places ever higher demands on the security of the system. In addition, legal regulations are strongly driving the post-digitalisation of outdated existing buildings. By 2050, the German government wants to reduce the energy demand of existing buildings by 80 percent. The market of the future will therefore be strongly characterised by retrofit projects.

## Particularly strong in retrofit projects

The OPEN.WRX (pronounced: OPEN works) automation station was explicitly developed to meet these challenges and brings together the classic world of building automation and the new world of Building IoT into an efficient and secure overall system on one hardware platform. With the OPEN.WRX automation station, we offer a forward-looking solution for efficient system integration for increasingly complex building automation projects. Despite its compact design, the OPEN.WRX automation station has the largest range of integrated interfaces on the market: a total of 4 integrated IP interfaces and 4 integrated serial interfaces make the OPEN.WRX series the best choice in retrofit projects. Because in these projects in particular, it is important to network different systems efficiently with each other in a small amount of space.



### Building IoT ...

*Coming soon* **Network security**  
4 Ethernet interfaces individually (de)activatable, IT/OT separation, integrated VPN

**BACnet Secure Connect (B-SCHUB)**  
Controller be used as BACnet/SC Node, BACnet/SC Primary Hub or BACnet/SC Failover Hub

**Cyber security in focus**  
Crypto chip FIPS certified, audit trail of controller configurations

*Coming soon* **Building IoT integration**  
MQTT and RestAPI



### ... combined with classic building automation

**Increased operational reliability and performance**  
Secure operation and increased performance for fieldbus integration thanks to dedicated power supply

**More interfaces**  
Up to 4 integrated interfaces for fast and uncomplicated fieldbus integration

**Fast and uncomplicated access**  
Secure access for all tasks throughout the project with no need for time-consuming network configuration

**Rapid diagnosis in the field**  
Via status LEDs or detailed view in the Controller Dashboard





## We are part of the Regin Group

The Regin Group is a European manufacturer of intelligent building automation and management systems as well as field products. For more than 75 years, our goal has been to sustainably improve energy efficiency in buildings and facilities through our technical solutions.

Today, the Swedish Regin Group consists of three strong product brands – Regin (SE), DEOS (DE) and Industrietechnik (IT). With our extensive product portfolio, we create integrated automation solutions – the best of three brands.

DEOS is your regional contact for the entire group portfolio in the DACH region.

**For buildings and systems that inspire.**



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