

REGIN - THE CHALLENGER IN BUILDING AUTOMATION



Regin

Meet the Challenger in Building Automation

 **REGIN**

THE CHALLENGER IN BUILDING AUTOMATION



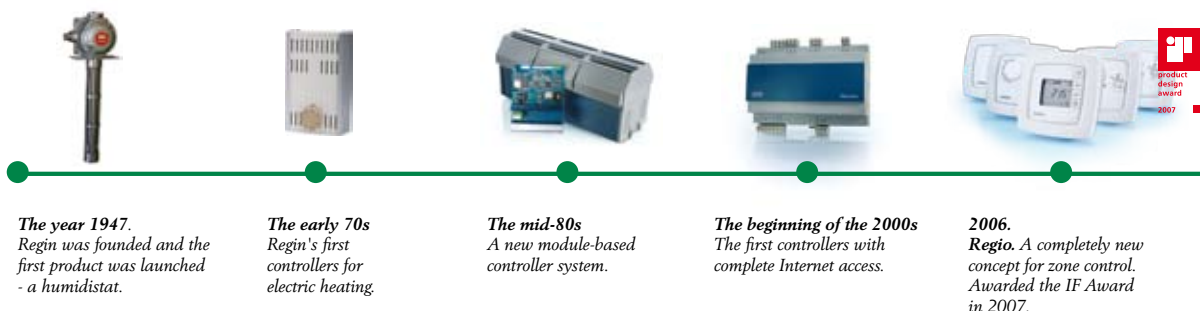
The Challenger!

A history of knowledge, experience and constant product development

Ever since Regin was established in 1947, we have developed and marketed products and systems that create good levels of indoor comfort. Today, we are an important player with one of the market's broadest ranges for building automation. You will also find that we have the knowledge, experience and resources to give you first-class support and guidance.

What makes Regin stand out the most is probably our undivided commitment and our motivation to do our best for our customers and partners. Many see us as the challenger within building automation. That stimulates us to work even harder.

- Has developed energy-efficient solutions since 1947
- Broad product range
- Does not carry out installation - works through a network of partners who compete under equal conditions
- Wide technical competence - from electromechanics to system development



The year 1947.
Regin was founded and the first product was launched - a humidistat.

The early 70s
Regin's first controllers for electric heating

The mid-80s
A new module-based controller system.

The beginning of the 2000s
The first controllers with complete Internet access.

2006.
Regio. A completely new concept for zone control. Awarded the IF Award in 2007.



Commitment and motivation

Our goal is to make Regin your* leading supplier of solutions that contribute to reduced energy consumption and sustainable development.

Therefore, all of us in the Regin Group have the same values. Our task is to always do our utmost to solve your problems. Hence, you, as a customer, have access to our knowledgeable staff in product development, technical sales support, training, logistics etc, who are always there for you.

**whether you are an integrator, consultant, distributor, installation engineer or property owner.*

Our guiding values

Take part

We always do our utmost to solve our customers' problems

Listen

We always listen before we act and react

Be knowledgeable

We must be knowledgeable and good at what we do

Simplicity

It must be easy to do business with us

Commitment

We commit ourselves to what we do



2007.
Optigo. The universal controller for all fundamental control functions.



2008.
Corrigo Web Controller with integrated web browser.



2008.
Regin launches a series of energy-saving valves that seal 100%



2008.
Continued Web development.

Regin is investing vigorously in energy-efficient solutions for the future.

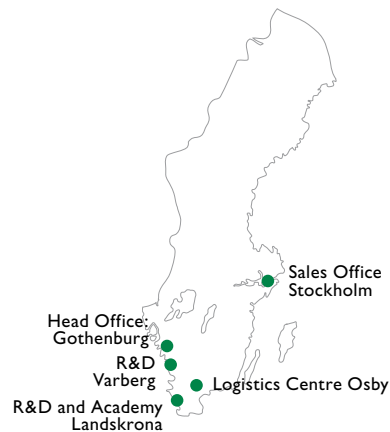
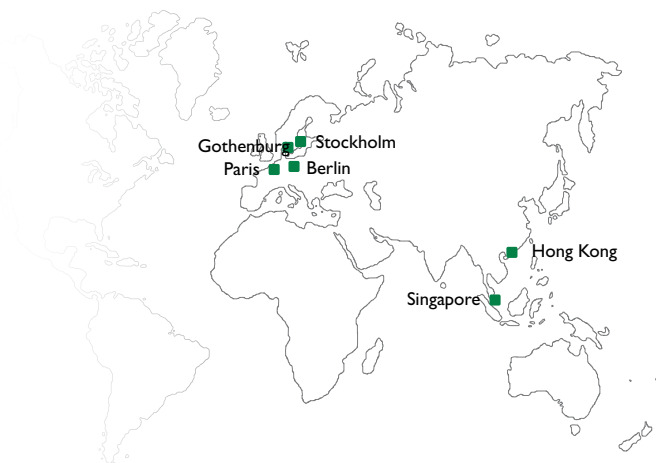


Global strength, strong local presence

Regin is an international Group with representation in about forty countries. The head office is located in Källered (Gothenburg) Our product development centres are located in Varberg and Landskrona. In Landskrona, we also have a sales office, technical support, as well as the Regin Academy, our training centre. The main warehouse, logistics unit and valve division are located in Osby.

In addition, Regin has offices in Stockholm, Paris, Berlin, Hong Kong and Singapore. Thanks to our global presence with strong local representation, we are well aware of the requirements of the market, as well as of how our products and systems function under the most variable conditions.

- Sales offices in Stockholm, Gothenburg, Paris, Berlin, Singapore and Hong Kong
- Representation in over 40 countries
- Reference installations all around the world
- A network of local distributors and integrators





Professional partners



Integrators

Regin does not perform installations. Instead, we offer a network of certified integrators who are responsible for planning, installation, commissioning and maintenance. The integrators are certified, after training at the Regin Academy. You can choose the integrator you want to work with - they all compete under the same conditions.

Regin Gold Certified Integrators

- Handle all of Regin's products and systems.
- Are RGCI certified by the Regin Academy and have completed all of the courses.
- Have access to reference plants (for study visits).
- Have access to extensive technical support from Regin.

Regin Certified Integrators

- Primarily handle Regin's system products.
- Are RCI certified by the Regin Academy and have completed courses in Regin's systems.
- Can advance to RGCI - Gold Certified Integrator by taking all of the courses.

Distributors

Our products and systems are kept in stock by distributors in about 40 countries around the world. They are responsible for marketing the products locally to consultants, installation engineers, property companies as well as to companies working with integration and system solutions.

Regin Certified Distributors

- Represent our complete product range, including our systems.
- Well acquainted with Regin's brand and values.
- They have the resources to provide high-quality local support.
- Build networks with system integrators.

Regin Distributors

- Represent Regin's basic range (not systems and system products)
- Have a good knowledge of Regin's products and brand.
- Can advance to RCD after training at the Regin Academy



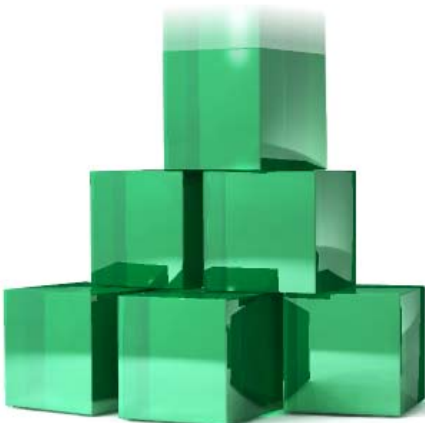
Regin's systems give total freedom

Our solutions for building automation stretch from individual functions to complex, geographically distributed systems. Thanks to the total flexibility and openness, an installation can always be modified and expanded in step with the needs. New products and systems can be connected with older systems, or with systems and products of other brands, other standards and protocols.

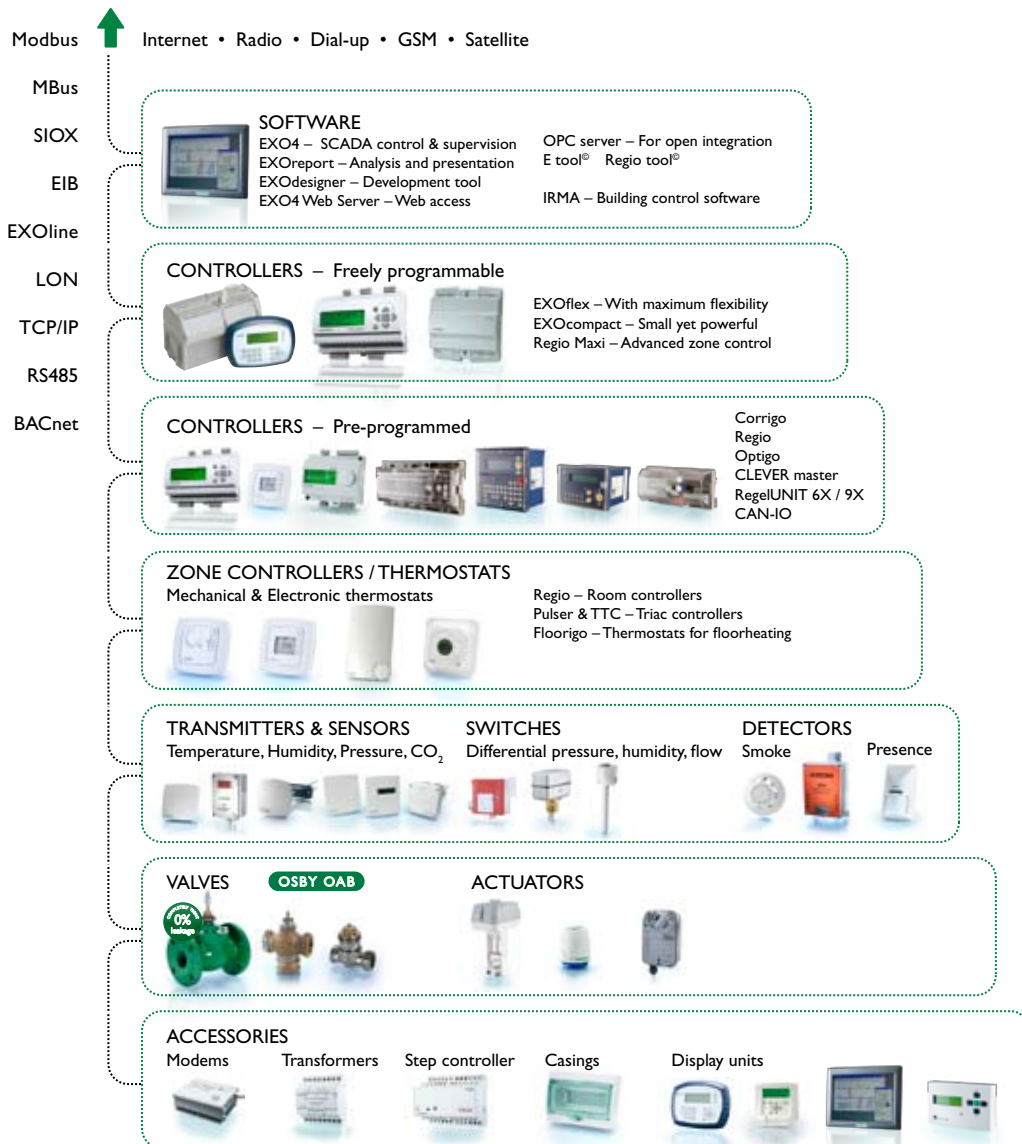
With our TCP/IP and web solutions, you can control, regulate and monitor individual functions just as well as large complex buildings.

For planning, installation and commissioning, you have access to our network of integration engineers. They all compete under the same conditions. The competition gives you the option to choose freely who you want to work with.

- Complete range - from individual products to systems for building automation
- Completely open systems, which allows integration and communication with systems operating with other standards and equipment of other brands
- Flexible modular construction makes it easy and cost-effective to expand a system
- The market's broadest range of systems for building automation via TCP/IP and the Internet
- Systems for controlling/regulating single rooms/zones of large blocks of buildings.



A Regin system can always be modified and expanded in a cost-effective way, in step with the changes in the conditions.





Regin System for open flexible integration



EXOflex

Controllers for larger systems

Freely programmable controllers and regulation units to be supplemented with plug-in units (PIFA) for different applications. Communication via GSM, TCP/IP, LAN/WAN, landline, satellite, etc. A web interface provides Internet access.



EXOcompact

Controllers for smaller and intermediate systems

Powerful freely programmable controllers for heating, ventilation and zone control especially suited for the EXO system.



Regio Maxi

Zone controller

Freely programmable controller with communication. Can be connected to bus systems: LON, Modbus, EXOline (TCP/IP or RS485). Web interface for remote reading and setting.



EXOcommunicator

Integration and communication solutions

Solutions for integration with the vast majority of standards, incl. TCP/IP, LON, EIB, MBus, Modbus, Siox, EXOline etc. Communication via radio, telephony, GSM, cable TV, network, satellite, etc.

Software



EXO4

Powerful SCADA that provides complete control and supervision of property functions, and measurement data.



EXOdesigner

Software tool for creating a Regin System with a communication network, configuring controllers and creating SCADA systems.



EXOreport

Supplementary programme for EXO4. Simplifies and automates the analysis and presentations of the collected measurements. Data can be processed in Microsoft Excel.



EXO4 Web Server

Gives access to the Regin system via Internet/Intranet.



EXOopc Driver

Makes it possible to connect EXO controllers to other units that support the OPC standard.



Arrigo

A powerful, web-based platform, useful in all phases of energy consumption streamlining. Collects information from start-up until the measures are completed. Enables connection with the EXOsystem in one or more properties in order to control and supervise operations



EXOhotel

A supplementary programme based on the Fidelio protocol, which makes it possible to connect a hotel booking system with EXO4.



Weatherlink

Weather forecast control makes it possible to control the heating of the property based on the external temperature and an equivalent temperature based on the weather forecast that takes into consideration the wind, sun, etc.



E tool®

With E tool®, a PC based tool, Corrigio E can be quickly adjusted for each application.



Regio tool®

Configuration and commissioning software for Regio Zone Control System.

Expandable control system with application programs

CLEVER system

Flexible, expandable system with up to 30 different application programs or for controlling up to 50 room units

CAN-IO-Module:

Modules with 8 or 16 inputs/outputs

CLEVER control

Display with information in clear text, for handling CLEVER master and the R+S controllers RU9X and RU 6X

CLEVER grafic

Touch panel/display for control of CLEVER master and the R+S controllers RU9X and RU 6X via a graphical interface



Software

IRMA System

Communicates with a system's R+S controllers via bus line, modem, network and the Internet. Client-server operation with MS Windows 2000, XP, Vista or Windows Server 2003

Configuration tool

PC-based tool for building up a CLEVER system

- Planning and commissioning of inputs and outputs
- Installation of application programs and activation of optional functions
- Creation of configuration data for downloading in CLEVER master



Controllers and Thermostats DIN Mounting



Corrigo E / Corrigo Web

Pre-programmed controllers for control of heating, cooling, zones etc. It can be equipped with communication ports for TCP/IP, LON or EXOline networks, for access, e.g., via the Internet.



E tool®

With E tool®, a PC based tool, Corrigo E can be quickly adjusted for each application



CLEVER master

Operating system for up to 30 control programs or for control of up to 50 rooms/zones. Handles up to 32 CAN-IO modules with a maximum number of 512 inputs and outputs, 50 CAN- remote control units. Communication via M-Bus with up to 250 participants.



RegelUNIT 6X, 9X

Controllers with ready-to-go software modules. Expandable with up to 30 control programs or 50 single room programs.



Optigo

A series of controllers for control of temperature, CO₂, pressure and humidity in HVAC applications, as well as for control of domestic hot water.



Duct Controller & Thermostat Heating/Cooling

Controllers and Thermostats for room control



Regio Maxi

Freely programmable room controllers with communication. Can be connected to bus systems such as LON, Modbus or EXOline (TCP/IP or RS485). The web interface provides access for remote reading and setting of setpoint values.



Regio Midi and Mini

Regio Midi

Pre-programmed room controllers with features of the stand-alone version, but with communication via Modbus or EXOline (RS485).

Regio Mini

Pre-programmed room controllers for stand-alone control of heating and cooling in a room.



Regio tool®

Configuration and commissioning software for Regio Zone Control System.

Controllers



Controller
for Fan Coil



Room controller



Room controllers with display

Thermostats

A broad range of mechanical and electrical thermostats for mounting on the wall, flush mounting or on a DIN rail.



Electronic thermostat
for underfloor heating



Room
thermostats
electronic



Mechanical
thermostats



Controllers, electrical heating

For mounting on the wall or on a DIN rail, as well as for 1-phase 230V, 2 and 3-phase 230V/400V.



PULSER room controllers with and without display



PULSER controller for DIN-rail mounting



TTC controller for DIN-rail mounting



TTC controller for wall mounting



Step controller used for larger loads

Sensors, switches and detectors

Everything required to measure and control relative humidity is included here.



Temperature

Room, outdoor, clamp-on, duct and immersion sensors.



Pressure

For measurement, regulation and monitoring of pressure in liquid and air



CO₂

Also available as combination sensors for CO₂, temperature and humidity. For room or duct mounting



Humidity

Available only for humidity or as a combined sensor for humidity and temperature.

Room humidity sensor

Duct humidity sensor

Humidistats Wall or duct mounting



Flow

Stable output signal with compensation for temperature variations.

Flow-switch

Air velocity sensor

Presence detectors

Smoke detectors



Ceiling

Wall



Ceiling

Wall



Control and alarm unit



Accessories

Modem



Transformers



Mains power supply



Step controller



Displays and Panel PC



Other accessories

Casings



Manometer



Valves & Actuators

Valves

District heating, hot water, hot service water, district cooling, cooling water, fan coil.
Wide range from DN15 to DN150



2-way valves



Zone valves



2-way and 3-way control valves



District heating valves



2 and 3 way valves with flange

Valve actuators

With 0...10 V, 3-way control or on/off control signal. Thermal actuators for chilled ceilings, underfloor heating and air-conditioning units (fan-coil) Damper actuators with or without spring return.



Valve and actuator for fan coil



Thermal actuators 100 Nm



Valve actuators 200 Nm



Valve actuator RVA 500 - 2500 Nm

Damper actuators

Full range of damper motors



Damper actuators with spring return 4 Nm



Damper actuators with spring return 15 Nm



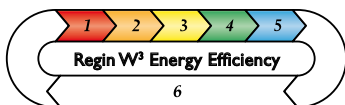
Damper actuators 5-40 Nm



Towards a bright future

Regin's concept for streamlining of energy consumption is aimed at reducing a property's energy consumption through increased insight. Commitment is ensured through the active participation of the property owner and the personnel. Regin runs and is responsible for the project. Through access to our extensive network of knowledgeable integration engineers, we put together, in consultation with the property owner, the exact working group that is needed for the task. Consultants and installation engineers can also be included. Regin and the integrator contribute competence, experience and practical solutions that provide the property owner with a more energy-efficient property. All three of them win. This is why the concept is called Regin W3.

With the implementation of last of the five stages, Regin's responsibility for the project is transferred to a property energy group, which carries on with the work.



Stages of the energy project

- 1. Startup and planning
- 2. Analysis of the current situation, data collection, inspection
- 3. Processing of ideas for energy-efficient measures
- 4. Implementation of designated measures
- 5. Evaluation and startup of internal energy group
- 6. The property owner's working group carries on with the project

Arrigo – the universal portal

Arrigo is a universal portal that ties together the property's technical and administrative systems. All of the data and functions concerning the property are accessible through direct links and search functions. From Arrigo, it is possible to connect directly to EXO 4 (Regin's SCADA system) or other systems in a common interface. There is automatic access to alarm lists and error reports. It is possible to supervise the operation, read off the energy consumption, etc. At the same time, Arrigo is a practical tool for planning, initialisation, as well as follow-up on service and maintenance.

Through Arrigo, it is also possible to access technical documentation, as-built documentation, inspection reports, energy declarations, etc.



Arrigo – the universal portal



Regin Academy – knowledge and experience

Our activities for more than sixty years have given us knowledge and experience we would like to share. This is why we have been running the Regin Academy for several years now with the purpose of training integrators, distributors and other customers in our systems and products.

The courses are based on our experience in building automation, as well as on our dialogue with consultants, integrators and property owners and managers.





Dynamic development Flexible manufacture

Every year, Regin dedicates approx. 10% of its turnover to the development of new products. Our goal is to find new, intelligent solutions that save energy. For example, Regin's own valve centre in Osby has developed a new generation of valves with a sealing technology that makes them completely tight in closed position. As a leader in the field, Regin now offers several valve series with this sealing technology that will successively include more valves.

Ready-Steady-Go makes the job easier

Ready-Steady-Go is another example of how we run our development with the aim of simplifying installation, commissioning and use. The concept can be found in the Corrigo E, Regio and Optigo controller products, as well as in our FRS district heating valves.

Quality and flexibility in manufacturing

Our products are manufactured by a group of selected partners who work with the absolute latest and most modern technology. Our task is to take responsibility for purchasing of materials and components, production planning, as well as a certain degree of assembly. This arrangement gives us full control of the complete production chain, from prototype to series production, with guaranteed high quality assurance. At the same time, this gives extremely high flexibility and short lead times.





We take OEM customers' ideas and turn them into reality

Regin has developed products and systems for control/regulation of indoor climate since 1947. This competence, together with our production resources, is an asset for many customers who entrust our OEM department with helping them with everything from product design to the finished product. Since we have a long tradition in flow control, we also develop and produce valves and actuators for different OEM applications.

Our services

- Product design, construction
- Prototype production
- PCB production
- Injection moulding of casings
- Assembly
- Testing, e.g. climate tests
- Customising different applications
- Programming
- Customised packaging
- Manuals, instructions

- *Project leaders with technical and commercial competence*
- *Specialists in design, programming, web technology, etc.*
- *Purchasing department with a wide network*
- *Technical support/helpdesk*

Examples of OEM areas of expertise:

- Zone control
- Ventilation
- Heating/cooling
- Dehumidification/Humidification
- Heat pumps
- District heating/cooling
- Circuit boards/PCB





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