

The 850 platform



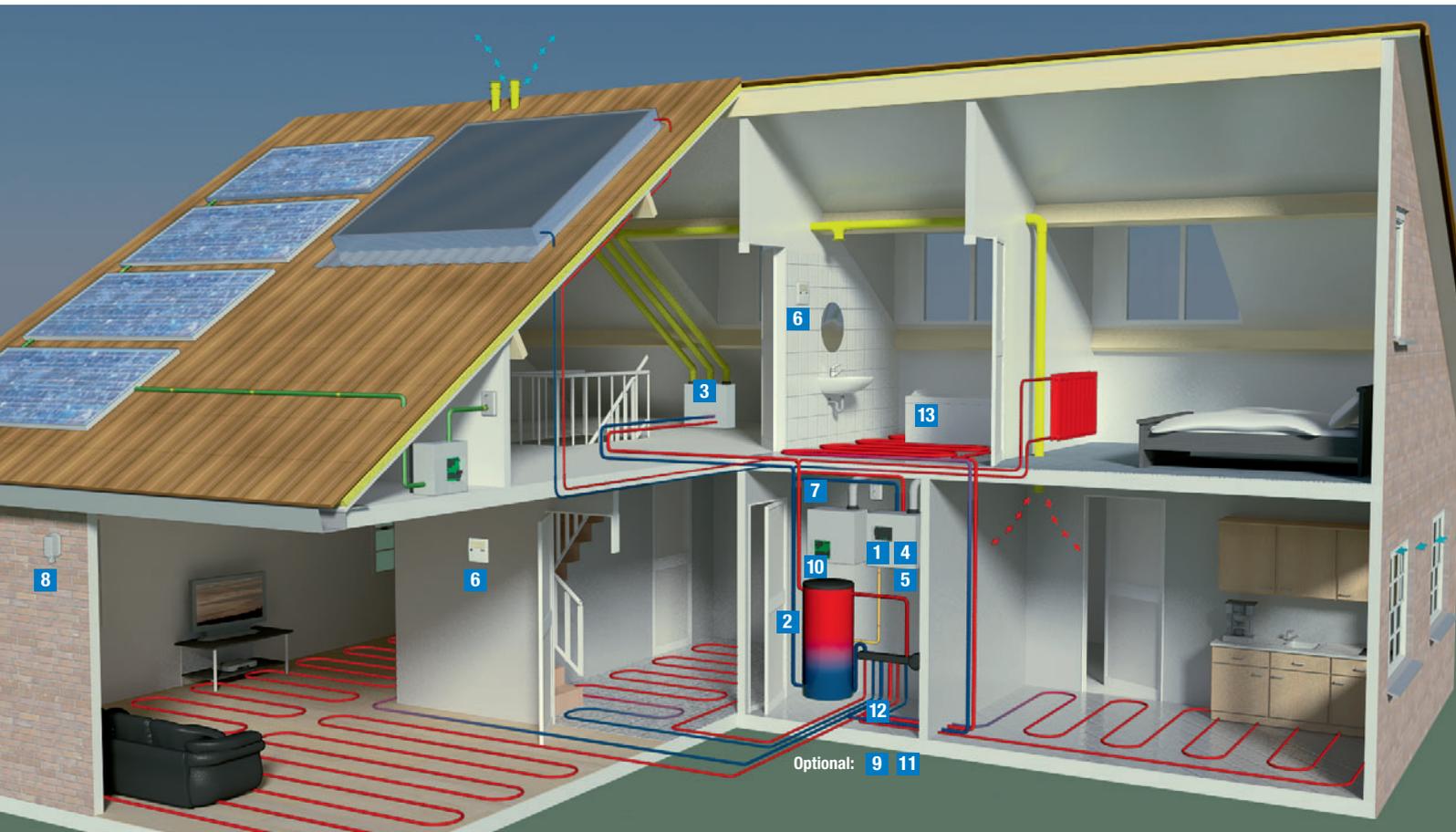
Hybrid heating systems efficiently controlled



ArgusVision

The intelligent control for more efficiency and easier operation

On account of stricter environment protection laws, rising energy costs and the generally greater sensitisation of the market with regard to ecological considerations, the heating technology sector too is currently experiencing a marked trend towards greater energy savings. As a consequence, the demand for hybrid heating systems consisting, for example, of boiler and solar power system, heat pump and solar power system, or boiler and heat pump, is increasing. With the Argus Vision 850 platform, we now present a way to make these systems even more efficient, powerful and user-friendly.



Heat generation modules

1 850MN Burner Control

- Automatic control unit for gas-fired appliances with a premix burner and a pneumatic air-gas system
- Easy configurable for: heating only boilers, combination boilers, water heaters or air heaters
- Argus Link interface for PC connection, cascade operation and connection to hybrid systems
- Upgradable to gas adaptive LambdaConstant system by a drop in replaceable control



2 850SC Solar Control

- Efficient control for thermal solar heat systems with or without drain-back tank
- Applicable for solar only, with backup boiler, with buffer store and boiler backup for DHW and CH
- Features: heat metering, modulating pump, 3-way and mixing valves and 4 sensor inputs
- Designed for simple use as hybrid system with boiler or heat pump



The modules

The advantages at a glance

- Standard hardware
- Ready-to-use software for the most common boiler configurations (combinations)
- Flexible choice of user interfaces
- Easy system integration
- Modular concept

Heat generation modules



3 850HP Heat Pump Control

- Designed to control air/air, air/water or brine/water heat pump systems
- Features: heating and cooling, 2 central heating zones and domestic hot water with optional electrical backup
- Includes compressor softstarter, reversing valve, 3-way valve and mixing valve
- Thermostat inputs for 24 V and switched live and communicating thermostats, output to backup boiler

Display modules



4 850DI LCD Display

- Simple LCD display module with green back light and 6 push buttons
- 3-digit LCD display module including 7 boiler status icons
- 2-wire Argus Link connection for both power and communication
- Reliable digital communication between display and control



5 850RC Remote Control

- Advanced display with 4x20-character LCD for 850 controls
- Easily accessible menu structure with user and installer level
- User interface with 4 push buttons
- Plain text messages and multiple language support



6 850HC Home Control

- Control with graphical user interface for controlling user comfort when using complex hybrid systems
- Clear icon-based system overview via graphical blue/white 255 x 80 pixel module
- Features: temperature measurement, system efficiency optimisation and energy control
- Applicable as user interface for 850 modules

Optional modules



7 850IF Interface Module

- Interface module to extend several heat generation control modules
- Additional sensor input, 0–10 V inputs and outputs, dry contacts for status indication
- RS-485 connection with MODBUS interface to interface with building management systems

Optional modules



8 850DS Digital Sensor

- Robust outdoor or room temperature sensor
- Transmits the temperature reading digitally via Argus Link to the other modules
- Reliable temperature measurement with long cable lengths



9 850CB Connection Board

- Connects easily up to 8 appliances to one 850DS Digital Sensor without setting control addresses



10 850GPRS Communication Module

- Wireless communication module using GPRS technology
- Remote vision software for monitoring, controlling and data logging of field appliances via permanent TCP/IP internet connection
- Connects easily to other 850 controls via Argus Link interface



11 850USB PC Communication Interface

- USB PC interface to connect the 850 controls with a personal computer
- LabVision PC software for monitoring, settings, graphs and logging programming device for control boards

Heat distribution



12 850ZH Zone Heating

- Control for heat distribution with multiple zones and a centralised heating systems
- Central heating with outdoor reset and Domestic Hot Water control
- Heat metering, mixing valve, diverter valve, modulating pump
- Communicates heat demand, setpoints and zone heat consumption with centralised boiler system



13 850ZM Zone Master

- Intelligent control of extra central heating zones like high and low temperature zones
- Connection of most common 24 V and modulating thermostats
- Features: sensors, pump control, mixing valve, overheat protection
- Highly efficient zone control as zone setpoint is communicated to boiler control

The flexible platform for flexible uses

Intelligent communication

Heating systems that use different energy sources are today mostly operated in a system comprising components that work independently of each other. Improving the efficiency of the individual components is therefore hardly possible. For the effective optimisation of hybrid heating systems, it is necessary for the individual system modules to be coupled so that they can communicate and operate with each other. This is also called 'Intelligent communication'. After over 20 years of experience, with great knowledge of applications and a large number of proven individual products for heating systems, we now present an intelligent communication system that combines the strengths and advantages of our products: the Argus Vision 850 platform. At the same time, the whole is more than the sum of its parts; the networking leads to a considerable increase in efficiency of the entire system, as well as a gain in usability and user comfort.

The 850 platform

The 850 platform consists of a series of control modules for the most common heating applications and heating systems in commercially used buildings or private houses. Heat generation modules of the system cover the control of all basic heating applications, including gas-fired boilers, hot water preparation, heat pumps and solar heat systems. If several 850 control modules are combined, there is nothing to prevent also the regulation of hybrid heating systems, i. e. systems with several heat sources. If there are additional control requirements, the system can be complemented with freely usable additional modules. The controls are then connected to each other via Argus Link (two-wire communication interface).

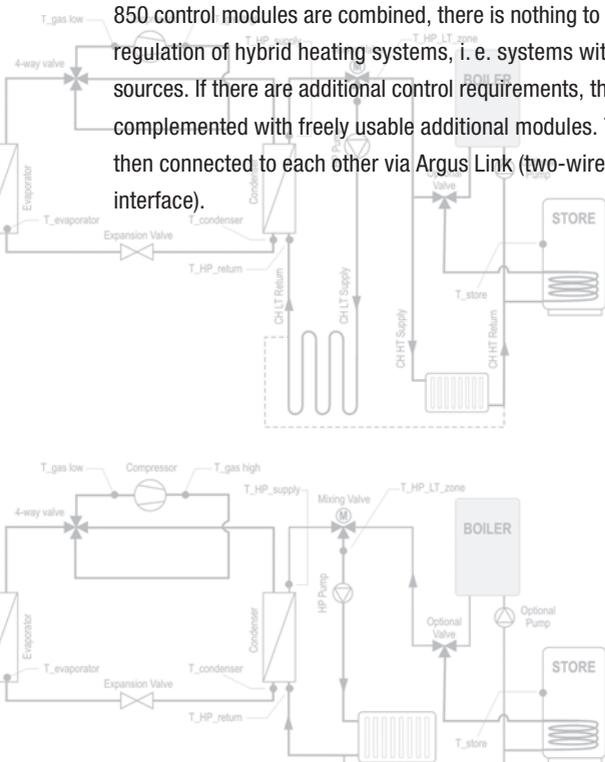
The most important quality and at the same time the greatest advantage of the 850 platform is the possibility of intelligent communication between all controls. Information from the individual applications can now be exchanged across the entire system and used jointly, whereby the various heating applications work like a single system.

Control and monitoring

In order to meeting current energy saving requirements for private homes, several technical systems are necessary. These regulate, among other things, temperature, ventilation, hot water, heat recovery and electricity. In order to enable the user to easily monitor the central functions in the house, the 850 platform has a high-performance central control unit: the 850HC Home Control, by means of which the user obtains information on the status of the various heating applications and can see how much energy is being used or even produced in the house (for example through a solar power system). In order to control the system, the individual components need not be set separately – it suffices to select the desired level of comfort.

Equipment and delivery

In order to ensure short lead times and no delays in initial operation, all standard hardware modules of the 850 platform are delivered ready for startup with software for the control of the most common system configurations. All standard modules of the 850 platform are produced by a single manufacturer – thus excluding the possibility of compatibility problems when combining the devices. In addition, for the connection to external systems, e. g. for building system technology, additional interface modules are also available.



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