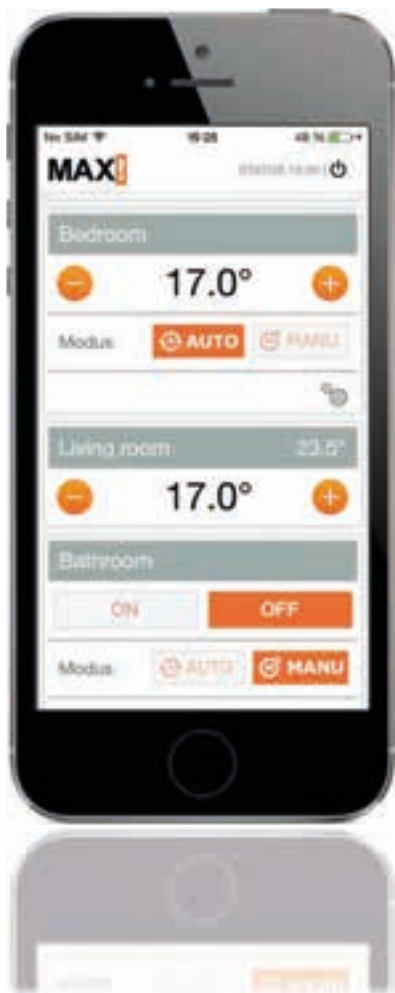




MAX!

**Flexible heating control via
smartphone and Internet**

The most efficient way to reduce energy costs and protect the environment is to use an intelligent heating control system.



MAX! users only need to turn the heating on when heat is actually needed. Greater convenience and flexibility while on the move using a smartphone.





Editorial



Energy costs have more than doubled over the last ten years. The incidental costs of running a home are now almost like a “second mortgage”, with the lion’s share being made up of heating costs. This is one reason behind the significant increase in demand for energy-saving solutions on the market. With the MAX! heating control solution, you can not only help your customers make savings, but also reap the benefits of this rapidly growing sector.

We’d like to invite you to read the pages of this brochure in order to discover exactly what the MAX! System has to offer. The system brings together the best of both worlds, by not only drawing on more than three decades of experience in the development and production of home control solutions, but also offering the competence of a true market leader in the field of electronic radiator thermostats.

The market potential of this new technology is absolutely staggering: in Germany alone (with a population of approx. 80 million in 40 million households), there are more than 100 million radiators. This brochure tells you how you can play a part in selling MAX! solutions on several markets and, at the same time, create new ties with customers.



Two European countries energy usage as an example – private households

Only 20 % of the total energy consumed by private households in United Kingdom comes from electricity. In Germany it is only 17 %.

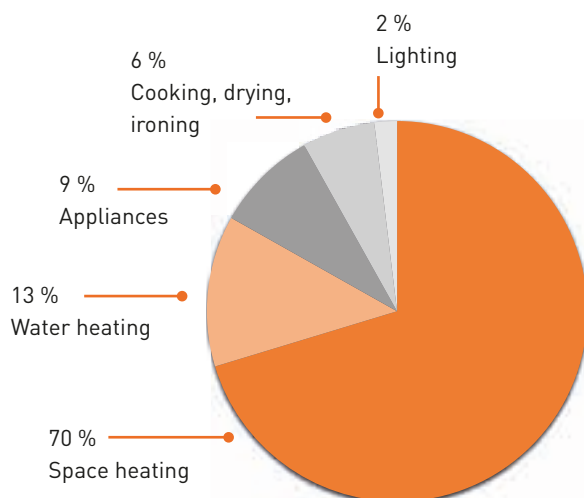
The amount of energy that can potentially be saved in terms of electricity is not nearly as high as people often think it is. In fact, it stands at less than 3 % on an ongoing basis.

By contrast, around 80 % of the energy supplied to private households in all its various forms goes on heating rooms and water.

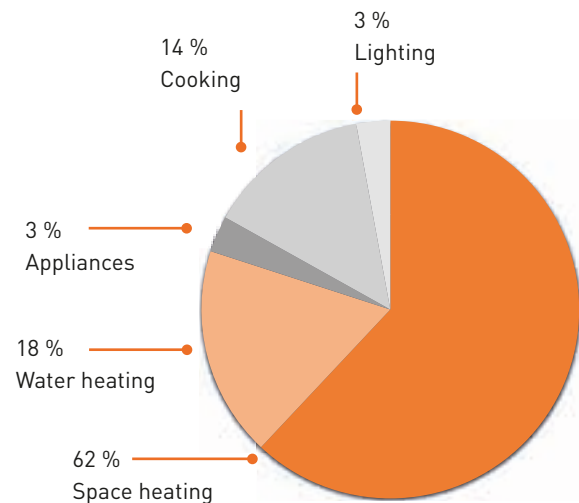
And this is exactly where MAX! comes into play: The greatest potential for saving energy and managing comfort in private households has to do with heat management in rooms. With the easy installation of our products, energy consumption in private households can considerably be reduced.

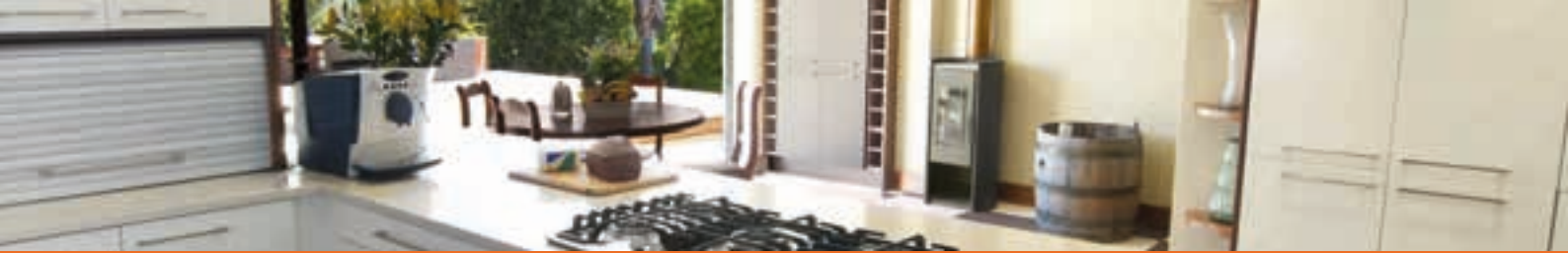


Average household energy use
Germany 2013 (statista)



Average household energy use
UK 2013 (DECC)





Benefits for partners

The MAX! Heating Control System provides partners from the following sectors with a whole host of opportunities and options:

- Energy suppliers
- Municipal utilities
- Telecommunications service providers
- Housing associations
- Mail order companies
- Service providers

These range from the opportunity to break into a new and highly profitable market and to position themselves as a service-oriented company, right through to the ability to leverage the products as an effective customer loyalty tool.

With MAX!, partners can offer their customers a new service that starts providing a ROI as of the very first month. The partner stands to benefit even more by building a profile as a service-oriented provider: Simply by connecting new telephone or Internet hardware, the engineer can

be deployed to the site quickly and can install the MAX! components with hardly any effort at all. No special tools or knowledge of heating/plumbing are required.*

What's more, rental or service models that do not involve initial costs save customers hard cash right away – and this creates a powerful incentive for long-term customer loyalty.

As far as the company itself is concerned, it has an opportunity to break into a new market where there is lots of customer interest using its existing service teams.

But what is it exactly that your customers want and need?

* In some markets a 230 V specialist may be required.

Benefits for end customers

... Greater convenience

- Increased comfort at home
- Better temperature control in individual rooms
- Integration of “anywhere” control
- Quick and easy “do it yourself” installation
- Installation service available if required

... Money savings

- Affordable, won't break the bank
- Transparent and traceable ROI that can be achieved in reasonable time frame

... Being green

- Ability to reduce individual CO2 footprint

... And to buy from a trusted brand

Customers can look after their well-being and save money at the same time thanks to the greater convenience and heating profiles that are tailored to their personal routines.



Benefits for users

Enable your customers to increase the level of comfort in their own homes, to save on energy costs and still do their bit for the environment – all with the MAX! System, the energy efficient heating control solution.

Heating costs account for the largest share of what private households spend on energy. Although there are regulations in place to ensure the construction of energy efficient buildings, the vast majority of homes in Europe were actually built before these regulations came into force. This means that there are more than 132 million households in Europe alone that are needlessly burning away their cash.

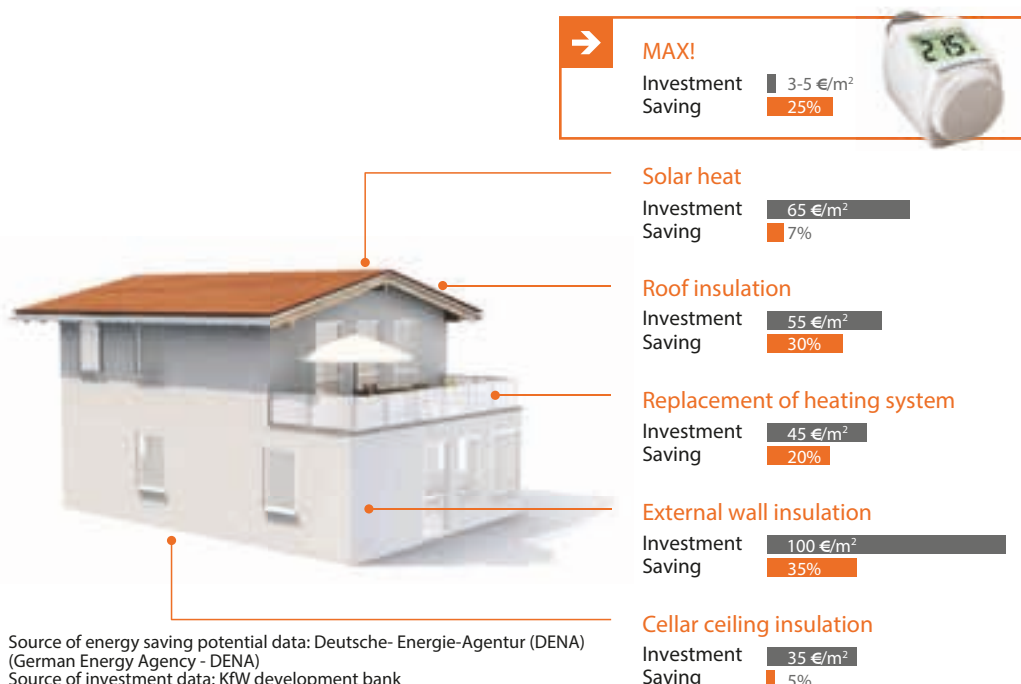
There are plenty of alternatives to saving energy, whether it be fitting roof and wall insulation or installing a new heating system. But these all require a high level of initial investment. All, that is apart from the MAX! Heating Control System! For an investment of just 3 to 6 euros per square metre, customers can cut their energy costs by a quarter, with the CO2 emissions for a multiple dwelling unit such as a block of flats being reduced by several tonnes.

This means that after approximately two years most users will have saved more money than the solution actually cost them in the first place. If the customers were to hire the technology rather than purchasing it, they could start making savings as of the very first month.

But that's not all. MAX! users are not just able to save money and help protect the environment; they can also, and perhaps most importantly from their perspective, improve the level of comfort in their own home. Instead of feeling guilty about heating their home all day to achieve an average temperature and then just turning the system down slightly at night, they can now heat specific areas at the times that suit them best. For example, they can turn the heat up slightly in the bathroom when it's time to get up and lower the bedroom temperature in the evening while still keeping the living room nice and cosy - automatically.

The technology is easy to understand, install and operate, which is really important from the point of view of customer acceptance.

Direct comparison of energy efficiency measures and the associated savings





Flexibility and comfort

The MAX! heating control solution provides the user with a whole spectrum of options – from local radiator control right down to a centrally controlled system for the entire home, which can also be used remotely via a smartphone and tablet.

The three different versions ensure convenient, energy-saving room temperature control. The size and functions of the MAX! System can also be tailored to suit the specific needs of the user:

MAX! HOUSE SOLUTION

This solution enables centralised control of all the MAX! components in a house via smartphone and Internet.

The central element is the MAX! Cube, which is controlled using the MAX! Software on PC/Laptop.



MAX! ROOM SOLUTION (CERTAIN MARKETS)

The MAX! Room Solution enables centralised control of all the radiators in a single room – and doesn't need the Internet.

You are able to upgrade the solution at any time by simply adding devices.

The central element is the MAX! Wall Thermostat+.



MAX! RADIATOR SOLUTION (CERTAIN MARKETS)

Local control of individual radiators; offers an easy introduction to the MAX! System. It provides a convenient way of controlling the temperature in a room – and doesn't need the Internet.

You are able to upgrade the solution at any time by simply adding devices.

Configuration is performed directly on the MAX! Radiator Thermostat+.





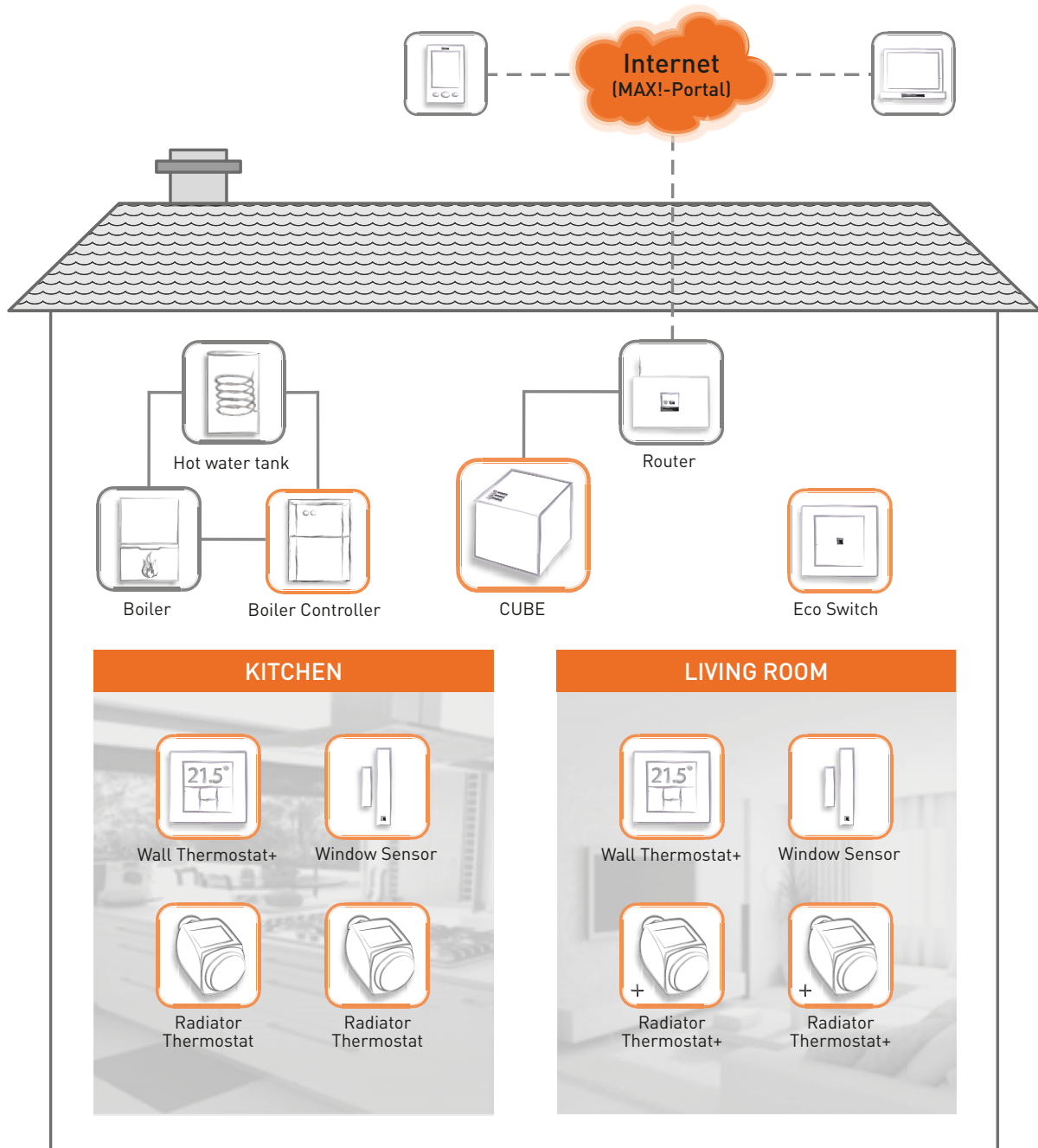
MAX! House Solution

CENTRALISED CONTROL OF ALL RADIATORS IN A HOUSE VIA SMARTPHONE AND INTERNET









The MAX! House Solution represents the most extensive version and enables all MAX! components in the house to be controlled conveniently via smartphone and Internet.

As the nucleus in the MAX! House Solution, the MAX! Cube controls all the components in a house using the MAX! Software.

Once all the components have been taught in to the MAX! Cube, it is possible to make all the settings and configuration specifications for the system (such as week programmes, variable temperatures, etc.) directly via the software interface, enabling individual room control which is essential for comfort and energy savings.





SOLUTION	CUBE	BOILER CONTROLLER	ECO SWITCH	WALL THERMOSTAT+	RADIATOR THERMOSTAT (UK VERSION ALSO AVAILABLE)	RADIATOR THERMOSTAT BASIC (UK VERSION ALSO AVAILABLE)	RADIATOR THERMOSTAT+	WINDOW SENSOR
								
HOUSE	X	X	X	X	X	X	X	X
ROOM				X	X	X	X	X
RADIATOR							X	X





MAX! Room Solution

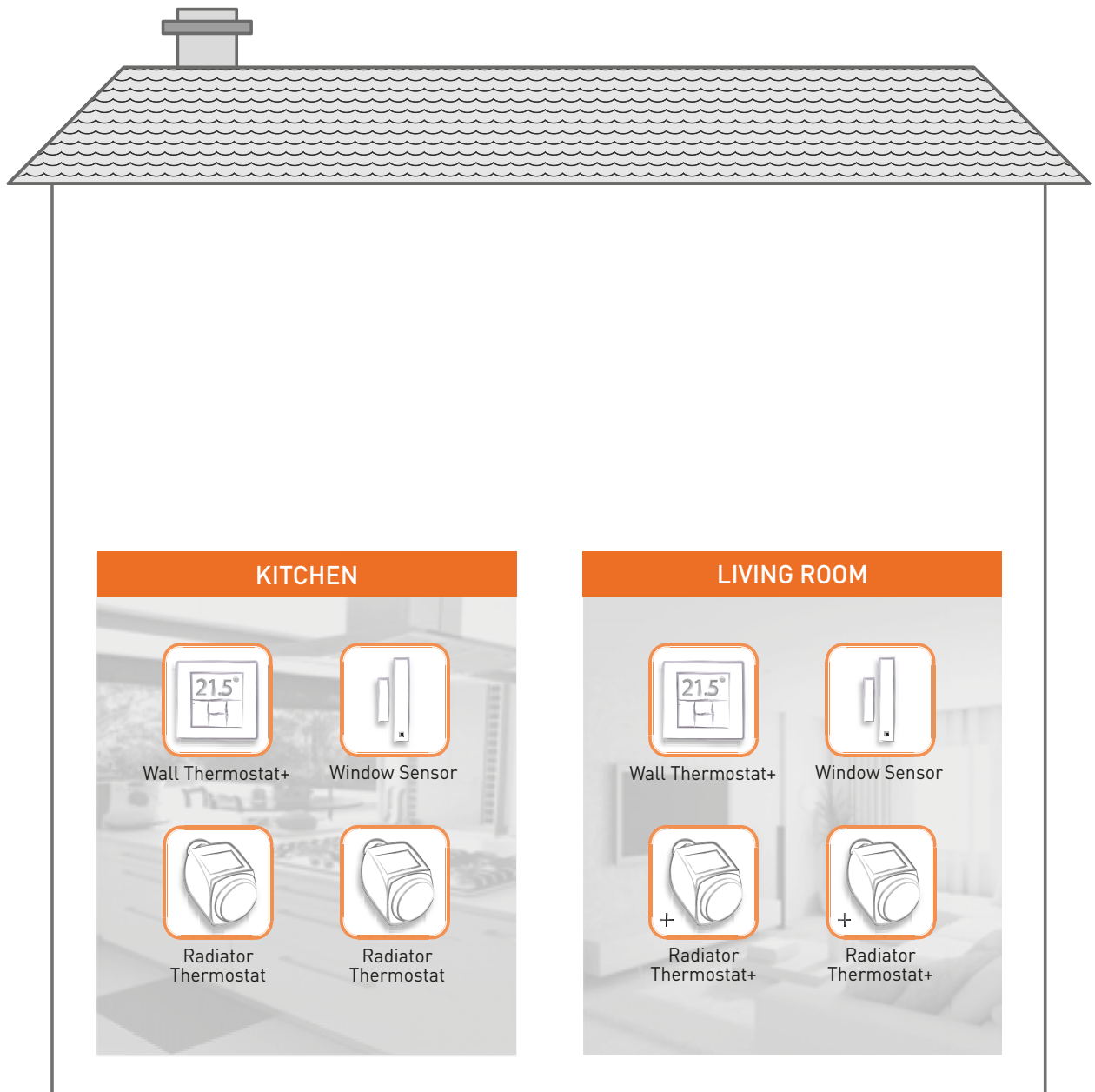
CENTRALISED CONTROL OF ALL RADIATORS IN A SINGLE ROOM

The MAX! Room Solution enables centralised control of all the radiators in a single room – and doesn't need an Internet connection. The central element is the MAX! Wall Thermostat+.

With the MAX! Room Solution, the temperature in a room can be controlled and regulated conveniently using up to 8 MAX! Radiator Thermostats(+) and 8 MAX! Window Sensors.

As the central element in the MAX! Room Solution, the MAX! Wall Thermostat+ controls all the components in a single room.

Once all the components have been taught in to the MAX! Wall Thermostat+, it is possible to make all the settings and configuration specifications for the system (such as week programmes, comfort and reduction temperatures, boost function etc.) directly on the Wall Thermostat+.





SOLUTION	CUBE	BOILER CONTROLLER	ECO SWITCH	WALL THERMOSTAT+	RADIATOR THERMOSTAT (UK VERSION ALSO AVAILABLE)	RADIATOR THERMOSTAT BASIC (UK VERSION ALSO AVAILABLE)	RADIATOR THERMOSTAT+	WINDOW SENSOR
HOUSE	x	x	x	x	x	x	x	x
ROOM				x	x	x	x	x
RADIATOR							x	x





MAX! Radiator Solution

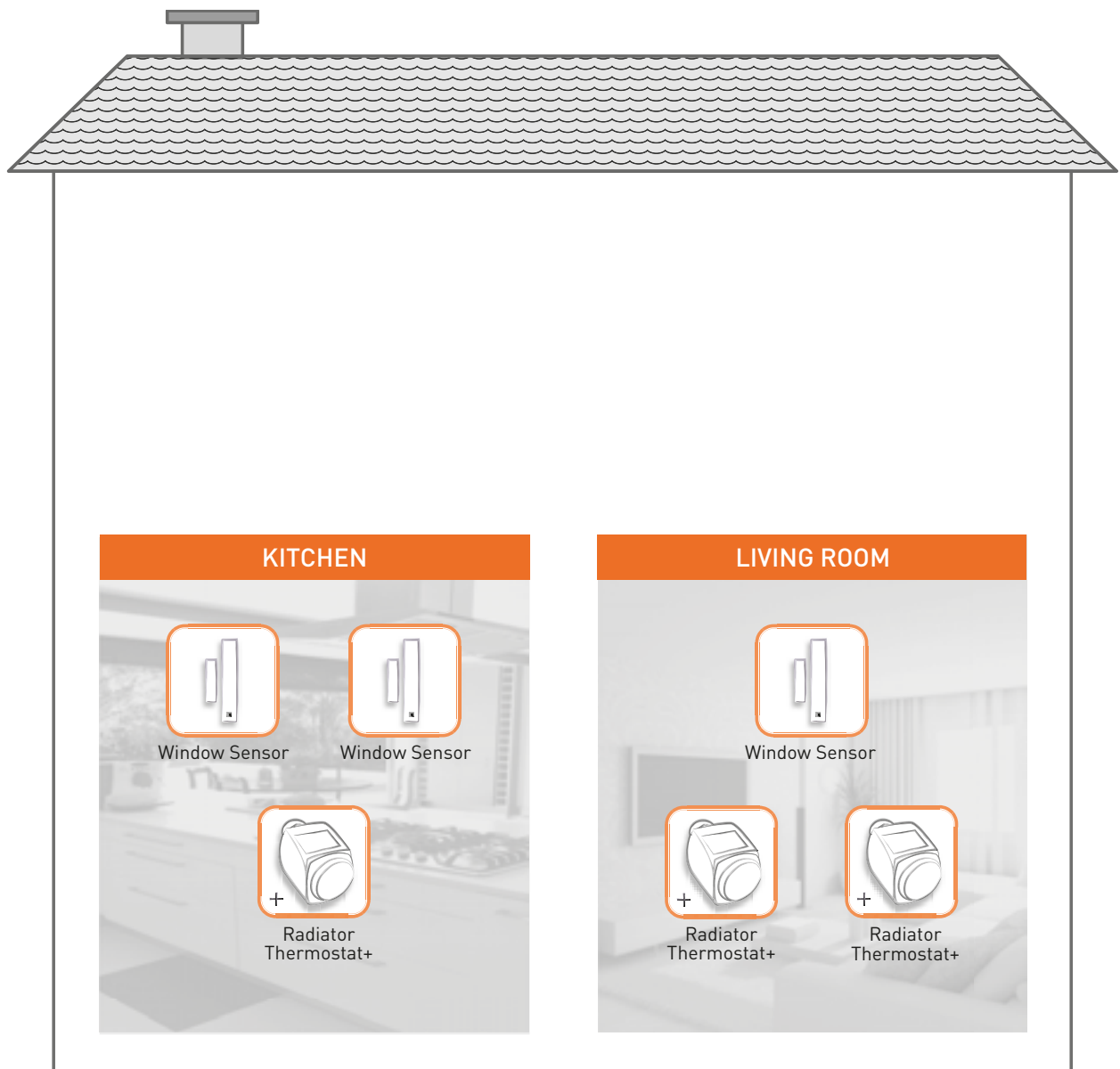
LOCAL CONTROL FOR INDIVIDUAL RADIATORS

The Radiator Solution offers users an easy introduction to the MAX! System.









The smallest MAX! System solution enables the temperature in a room to be controlled and regulated conveniently using up to 2 MAX! Radiator Thermostats+ and 3 MAX! Window Sensors. It does not require an Internet connection or any additional components like the MAX! Cube or a MAX! Wall Thermostat+.

In cases where multiple Radiator Thermostats and Window Sensors are being used, it is easy to network all the components with one another.

The process of configuring the required temperatures and times is clear and simple, and is performed directly on the MAX! Radiator Thermostat+.





SOLUTION	CUBE	BOILER CONTROLLER	ECO SWITCH	WALL THERMOSTAT+	RADIATOR THERMOSTAT (UK VERSION ALSO AVAILABLE)	RADIATOR THERMOSTAT BASIC (UK VERSION ALSO AVAILABLE)	RADIATOR THERMOSTAT+	WINDOW SENSOR
								
HOUSE	x	x	x	x	x	x	x	x
ROOM				x	x	x	x	x
RADIATOR							x	x





Portal Software

With the MAX! Portal, the users can control their MAX! Heating System from anywhere in the world. All they need to operate the components are Internet access and the MAX! smartphone app or MAX! Internet control feature.

Communication between the MAX! Cube and the MAX! Portal does not require any complex configuration settings. Remote access can simply be activated via the software – so there's no need to open the user's firewall.

The MAX! Portal software can be adapted easily to reflect partners' branding features. It is also possible to alter the control logic if required, making it possible to integrate the software into more complex portals. The clear structure makes it easy to perform maintenance and introduce future versions.

Thanks to Java implementation based on modern frameworks, the software can be integrated into partners' IT architectures with ease. Careful consideration has been given here to the issue of allowing scalability for hundreds of thousands of households.

MAX! has been optimised to allow highly cost-effective operation. Therefore, it will also be of interest to business models that finance the operation of their servers using a range of marketing instruments.

The MAX! licence model is based on the number of households or installations to be supported. There is no recurring monthly fee and the licence is available on a single or a multi-brand basis.

The MAX! apps for iPhone and Android are also included in the licence for the MAX! Portal software.

The front-end components of the MAX! Portal are supplied in the source code. In addition, complete licences can be included in the source code on request. The MAX! Portal licence incorporates a reference platform that can be used for support and maintenance as well as tests and initial pilots for immediate use.

Internet control and smartphone apps

Via the MAX! Cube, which is the central element of the MAX! House solution, all MAX! devices in the house can be controlled by smartphone and Internet.

The control of your heating system via Internet is performed via the MAX! Internet control with a standard web browser from any PC. The local MAX! software allows all functions to set up and control the MAX! system and can only be used within the personal network of the user. The MAX! Internet control allows quick and comfortable operation of the system.

MAX! installations can also be controlled remotely via the free iOS and Android MAX! app for smartphones and tablets. The app enables the user to control all MAX! components within the MAX! installation from any place via web access and to set up their demands as required.

The overview sorted by rooms offers a clear and easy-to-use structure. Besides controlling options, the MAX! app also offers additional details, such as low batteries in thermostats or open and closed windows. In this way, the

user is informed at any time and place and can control the room temperature according to personal needs.



Cube LAN Gateway



PRODUCT FEATURES

- Flexible heating control at any place via MAX! smartphone apps (Android, iOS) or via the MAX! portal with any Internet connection
- Increased security thanks to encrypted, authenticated communication within the network (AES-128) as well as authenticated bidirectional wireless communication with all components
- Easy to install and use without any need of network know-how: no configuration of router or firewall required
- All individual device settings and parameters are stored locally so the system can even be operated independently of a PC or active Internet connection
- Comfortable control of up to 50 devices in max. 10 rooms



Art.-Nr. European Plug 99004A0
UK Plug 99004D0

Interface between MAX! wireless components and home network. Quick and easy local configuration of all MAX! components via the MAX! software.

TECHNICAL SPECIFICATIONS

Supply voltage:	Input: 100-240 V~/350 mA Output: 5 V=/550 mA
Power consumption in standby:	1.1 W
Degree of protection:	IP20
Dimensions (W x H x D):	Approx 80 x 80 x 80 mm
Radio frequency:	868.3 MHz
Typ. open area RF range:	> 100 m
Connection:	RJ-45 (Ethernet)

User manual in DE/EN, FR/NL and PL/IT included.

Boiler Controller



PRODUCT FEATURES

- Additional channel for controlling hot water tanks
- Easy installation in pattress box or flexible mounting on walls
- Individual adjustment of times and temperature for the central heating and hot water via PC or smartphone app
- 2 Independent Switching Channels: Heating and Hot Water
- Can be used in the MAX! House solution via MAX! Cube



Art.-Nr. 142310A0

Boiler Controller for individual and demand-based wireless control of the central heating.

TECHNICAL SPECIFICATIONS

Supply voltage:	230 V/50 Hz
Current consumption:	Channel 1: 16 A max. Channel 2: 5 A max.
Power consumption in standby:	< 0.2 W
Degree of protection:	IP20
Dimensions (W x H x D):	98 x 130 x 23 mm
Radio frequency:	868.3 MHz
Typ. open area RF range:	>100 m

User manual in EN included.

Radiator Thermostat



PRODUCT FEATURES

- Freely programmable heating phases (13 switching times per day) via the MAX! software
- Easy installation without having to intervene in the heating system; no special tools required
- Ready to use thanks to pre-set week programs
- Precise temperature adjustment (to the nearest 0.5°C)
- Automatic temperature reduction when the windows are opened in connection with MAX! Window Sensors
- Frost protection function automatically opens valves if necessary
- Limescale protection automatically protects against calcification thanks to regular opening/closing of the valves
- Boost button for heating up the radiator immediately
- Tamper-proof thanks to child-proof lock/operating lock
- Theft protection available as an option

Radiator Thermostat basic



PRODUCT FEATURES

- Freely programmable heating phases (13 switching times per day) via the MAX! software
- Easy installation without having to intervene in the heating system; no special tools required
- Ready to use thanks to pre-set week programs
- Precise temperature adjustment (to the nearest 0.5°C)
- Automatic temperature reduction when windows are opened in connection with MAX! Window Sensors
- Frost protection function automatically opens valves if necessary
- Limescale protection automatically protects against calcification thanks to regular opening/closing of the valves
- Boost function for heating up the radiator immediately
- Tamper-proof thanks to child-proof lock/operating lock



Art.-Nr. 99017A0

Automatic regulation of radiators in connections with the MAX! Cube LAN Gateway and/or the MAX! Wall Thermostat+.

TECHNICAL SPECIFICATIONS

Supply voltage:	2x 1.5 V LR6/mignon/ AA batteries
Current consumption:	100 mA (max.)
Battery life:	2 years (typ.)
Display:	LCD
Threaded connection:	M30 x 1.5 mm
Dimensions (W x H x D):	60 x 65 x 100 mm
Radio frequency:	868.3 MHz
Typ. open area RF range:	> 100 m

User manual in DE/EN, FR/NL and PL/IT included.



Art.-Nr. 142016A0

Small and compact radiator thermostat with low-noise gearbox for automatic regulation of radiators in connection with the MAX! Cube LAN Gateway and/or the MAX! Wall Thermostat+.

TECHNICAL SPECIFICATIONS

Supply voltage:	2x 1.5 V LR6/mignon/ AA batteries
Current consumption:	100 mA (max.)
Battery life:	2 years (typ.)
Display:	LCD
Threaded connection:	M30 x 1.5 mm
Dimensions (W x H x D):	55 x 60 x 102 mm
Radio frequency:	868.3 MHz
Typ. open area RF range:	> 100 m

User manual in DE/EN, FR/NL and PL/IT included.



Radiator Thermostat UK



PRODUCT FEATURES

- Freely programmable heating phases (13 switching times per day) via the MAX! software
- Easy installation without having to intervene in the heating system; no special tools required
- Ready to use thanks to pre-set week programs
- Precise temperature adjustment (to the nearest 0.5°C)
- Automatic temperature reduction when the windows are opened in connection with MAX! Window Sensors
- Frost protection function automatically opens valves if necessary
- Limescale protection automatically protects against calcification due to regular opening/closing of the valves
- Boost button for heating up the radiator immediately
- Tamper-proof due to child-proof lock/operating lock
- Theft protection available as an option



Art.-Nr. 141418A1

Automatic regulation of radiators in connection with the MAX! Cube LAN Gateway and/or the MAX! Wall Thermostat+.

TECHNICAL SPECIFICATIONS

Supply voltage:	2x 1.5 V LR6/mignon/ AA batteries
Current consumption:	100 mA (max.)
Battery life:	2 years (typ.)
Display:	LCD
Threaded connection:	M30 x 1.5
Dimensions (W x H x D):	60 x 65 x 100 mm
Radio frequency:	868.3 MHz
Typ. open area RF range:	> 100 m

User manual in EN included.

Radiator Thermostat basic UK



PRODUCT FEATURES

- Freely programmable heating phases (13 switching times per day) via the MAX! software
- Easy installation without having to intervene in the heating system; no special tools required
- Ready to use thanks to pre-set week programs
- Precise temperature adjustment (to the nearest 0.5°C)
- Automatic temperature reduction when windows are opened in connection with MAX! Window Sensors
- Frost protection function automatically opens valves if necessary
- Limescale protection automatically protects against calcification thanks to regular opening/closing of the valves
- Boost function for heating up the radiator immediately
- Tamper-proof thanks to child-proof lock/operating lock



Art.-Nr. 142453A0

Small and compact radiator thermostat with low-noise gearbox for automatic regulation of radiators in connection with the MAX! Cube LAN Gateway and/or the MAX! Wall Thermostat+.

TECHNICAL SPECIFICATIONS

Supply voltage:	2x 1.5 V LR6/mignon/ AA batteries
Current consumption:	100 mA (max.)
Battery life:	2 years (typ.)
Display:	LCD
Threaded connection:	M30 x 1.5 mm
Dimensions (W x H x D):	58 x 63 x 122 mm
Radio frequency:	868.3 MHz
Typ. open area RF range:	> 100 m

User manual in EN/DE included.



Radiator Thermostat+



PRODUCT FEATURES

- Freely programmable heating phases directly on the radiator thermostat
- Flexible expansion to MAX! Room or House solution
- Easy installation without having to intervene in the heating system; no special tools required
- Ready to use thanks to pre-set week programs
- Precise temperature adjustment (to the nearest 0.5°C)
- Automatic temperature reduction when the windows are opened in connection with MAX! Window Sensors
- Frost protection function automatically opens valves if necessary
- Limescale protection automatically protects against calcification thanks to regular opening/closing of the valves
- Boost button for heating up the radiator immediately
- Tamper-proof thanks to child-proof lock/operating lock

Eco Switch



PRODUCT FEATURES

- Whenever you leave home, all MAX! Radiator Thermostats can be brought down to an individually defined reduction temperature. When coming back, you can activate the individually defined week programs of your radiator thermostats again – also at the touch of a button
- Thanks to battery operation highly flexible where mounting and selecting a mounting location are concerned
- The mounting plate can be easily screwed or attached with adhesive strips to the wall using the supplied clip-on frame or you can integrate the device into existing switches from several manufacturers
- Long battery life of up to 5 years (alkaline batteries)
- Individual adjustment of button functions via MAX! software



Art.-Nr. 105936A0

Ideal solution for starting to use the MAX! system:
In the MAX! Radiator solution immediately ready for use to control single radiators – even without Internet connection.

TECHNICAL SPECIFICATIONS

Supply voltage:	2x 1.5 V LR6/mignon/ AA batteries
Current consumption:	100 mA (max.)
Battery life:	2 years (typ.)
Display:	LCD, illuminated
Threaded connection:	M30 x 1.5
Dimensions (W x H x D):	60 x 65 x 100 mm
Radio frequency:	868.3 MHz
Typ. open area RF range:	> 100 m

User manual in DE/EN, FR/NL and PL/IT included.



Art.-Nr. 99011A0

Save energy in every room at the touch of a button with the MAX! Eco Switch.

TECHNICAL SPECIFICATIONS

Supply voltage:	2x 1.5 V LR6/mignon/ AA batteries
Current consumption:	50 mA (max.)
Battery life:	5 years (typ.)
Degree of protection:	IP20
Dimensions (W x H x D):	86 x 86 x 21.5 mm (incl. frame)
Radio frequency:	868.3 MHz
Typ. open area RF range:	> 100 m

User manual in DE/EN, FR/NL and PL/IT included.

Wall Thermostat+



PRODUCT FEATURES

- For central control and set-up of a MAX! Room Solution with up to 8 MAX! Radiator Thermostats and 8 MAX! Window Sensors – no PC or Internet connection required
- Local programming of comfort and reduction temperature
- Boost button for heating up all the radiators in the room instantly
- Internal sensor measures the temperature in the room and cyclically transmits it to the radiator thermostats
- Switch between automatic and manual operation
- Wall mounting with supplied clip-on frame or integration into existing switches from several manufacturers



Art.-Nr. 105679A0

Comfort throughout the entire room at the touch of a button with the MAX! Wall Thermostat+.

TECHNICAL SPECIFICATIONS

Supply voltage:	2x 1.5 V LR06/micro/AAA batteries
Current consumption:	30 mA (max.)
Battery life:	2 years (typ.)
Display:	LCD
Degree of protection:	IP20
Dimensions (W x H x D):	86 x 86 x 21.5 mm
Radio frequency:	868.3 MHz
Typ. open area RF range:	> 100 m

User manual in DE/EN, FR/NL and PL/IT included.

Window Sensor



PRODUCT FEATURES

- Simultaneous control of all MAX! Radiator Thermostats in a room
- Battery and window status (open/closed) are transmitted to the MAX! Cube
- LED status display (transmission behaviour)
- Easy and flexible installation thanks to supplied double-sided adhesive strips or screws
- Long battery life of up to 5 years (alkaline batteries)
- Both white (RAL 9010) and brown (RAL 8014) covers and spacers for individual adjustment to the colour of window frames are included in package contents
- understated design suitable for universal use



Art.-Nr. 99023A0

Lower energy costs thanks to automatic ventilation detection when windows are opened and closed. During ventilation, the room temperature is reduced. As soon as the window is closed, the thermostat resumes its heating program.

TECHNICAL SPECIFICATIONS

Supply voltage:	2x 1.5 V LR03/micro/AAA batteries
Current consumption:	50 mA (max.)
Battery life:	5 years (typ.)
Degree of protection:	IP20
Dimensions (W x H x D):	Electronic unit: 18.5 x 103.5 x 24.5 mm Magnet: 12 x 48 x 12 mm
Radio frequency:	868.3 MHz
Typ. open area RF range:	> 100 m

User Manual in DE/EN, FR/NL and PL/IT included.

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