

A breath of fresh air for controls

MES^{PLUS}

MES^{PLUS} – Control and system technology
for perfect production and distribution of heat.

windhager
HEAT WITH VISION



Control



A breath of fresh air

MES^{PLUS}

Heat as it should be

Economic fuel consumption, a comfortable room temperature and first class ease of operation – the new MES^{PLUS} control generation deals you all the aces. Controlling your heating system is a very simple process, even for complex systems with several heating circuits and heat generators.

MES^{PLUS} – the benefits at a glance

ADDITIONAL CONVENIENCE AND COMFORT

- All information is available as simple and easy-to-understand plain text and using self explanatory symbols
- Very simple and intuitive to use (shortcut keys, rotary and pushbutton functions)
- 3 individual heating programmes and 1 hot water programme, each with 6 time and temperature settings make for customised programming
- The heating optimisation function ensures that the temperature you want is reached at exactly the time you set
- Since the room temperature is being recorded continually, the precise amount of heat required is always made available and the room is effectively prevented from overheating

ECONOMIC HEATING

- All sources of heat, such as the boiler, solar system, buffer tank etc., are continually coordinated by MES^{PLUS} and optimised in terms of output and operating times
- MES^{PLUS} always requests heat from the generator producing the most economically at that time
- Using the room temperature means that passive energy from sunlight and other sources of heat, such as a tile stove, are taken into account in the control response

RELIABLE AND SAFE IN OPERATION

- MES^{PLUS} has already been fitted on thousands of proven Windhager MES control systems
- The Windhager function guarantee for system performance (boiler, distributor, control) gives you maximum peace of mind from the start
- Maximum security thanks to the full five year guarantee (conditions apply)



Systematic warmth

Want to combine your boiler with a solar system? Planning to add extra heat generators or heating circuits to your heating system? No problem – MES^{PLUS}, the modular energy system from Windhager, can be added to at any time and guarantees reliable and economic operation at all times.

Modular

The modular design of the user module, control module and system distributor permits tailor-made heating solutions for every requirement. In addition, this technology enables the heating system to be expanded as and when required.

Energie

MES^{PLUS} combines economy with ecology: minimum energy consumption with the lowest emissions. MES^{PLUS} focuses only on the actual amount of heat required.

System

The tested system of hydraulic and control components guarantees total functional reliability.



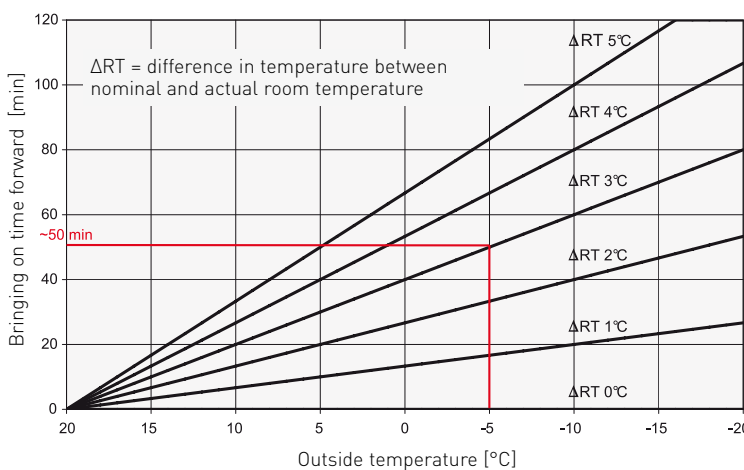
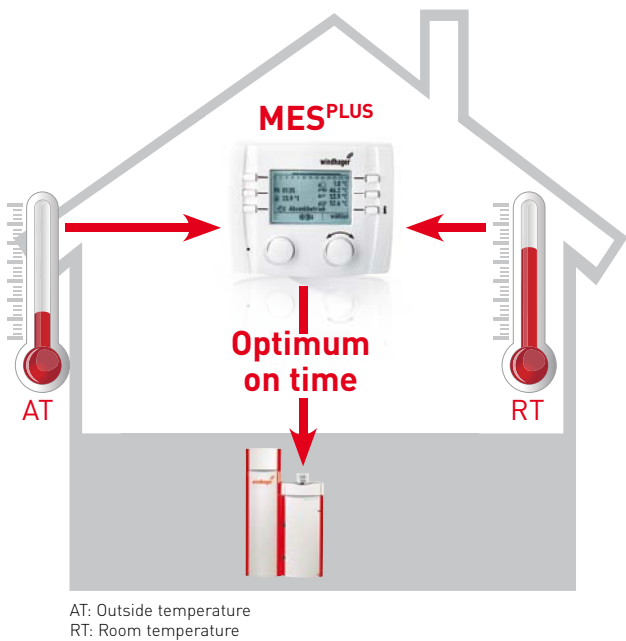
The right amount of heat at the right time

The intelligent MES^{PLUS} control system automatically delivers the temperatures you need to feel comfortable round the clock. Cosy heat during the evening, a little cooler during the night and pleasant temperature control in the morning – three individual heating programmes with six switching times and temperature settings ensure the right amount of heat at just the right time.

Heating optimisation – for more comfort and economy

MES^{PLUS} also features a heating optimisation feature to ensure the most comfortable heating operation possible. This function is responsible for starting the heating process as late as possible for the chosen room temperature to be reached when you want it. You programme the time and temperature you want, MES^{PLUS} automatically works out when it needs to start heating.

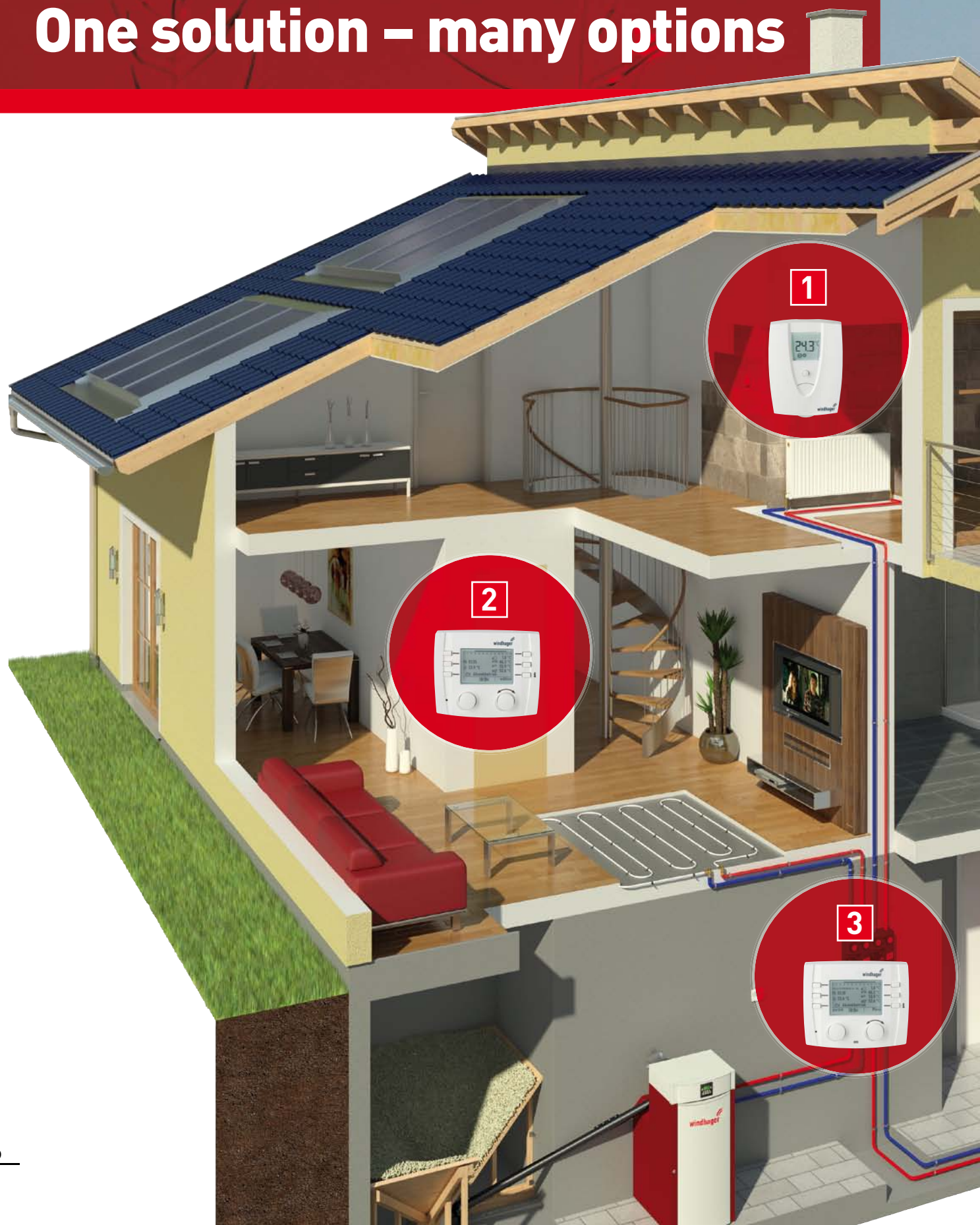
The optimum on time depends on the outside temperature and the difference between the nominal and actual room temperature. For example, the lower the outside temperature and the greater the difference between the nominal and actual room temperature, the earlier heating starts.



Example: Outside temperature -5°C ; Difference in temperature between nominal and actual room temperature = 3°C ; Bringing programmed on time forward by around 50 min.

The fact that the system automatically works out the latest possible on time means that the system is operated efficiently without any loss of comfort because the room is not heated unnecessarily before heating is needed and heat from other sources, such as a stove or sunlight, is also taken into account.

One solution – many options





Living area	<div><div>1</div><div>MES^{PLUS}</div><div>Remote control</div></div>	<div><div>Jetzt auch als FUNKLÖSUNG erhältlich!</div></div>
	<div><div>2</div><div>MES^{PLUS}</div><div>User module</div></div>	
Boiler room	<div><div>3</div><div>MES^{PLUS}</div><div>Master user module</div></div>	



Ease of operation is important with MES^{PLUS} which is intuitively operated by turning and pressing buttons. All settings can be queried and changed from the comfort of the living area. Individually selectable modules and programmes ensure a highly personalised comfort and heat experience.



Simple operating
element for controlling
one heating circuit
from the living area

Individual
heat programming
of **one heating
circuit** from
the living area

For central
control of **your
heating system**

- Simple and easy-to-understand operation of the most important functions (heating and temperature decrease mode and comfort setting)
- Integrated room temperature sensor for energy-saving operation
- Continuous adjustment of flow temperature protects the room from overheating
- Display with backlight ensures good legibility
- 3 heating programmes with up to 6 options for switching times and temperature settings per day
- 1 hot water programme with up to 6 options for temperature settings and boiler load times per day
- Integrated room temperature sensor for energy-saving operation
- Continuous adjustment of flow temperature protects the room from overheating
- Practical pre-programming for holidays
- Display with backlight ensures good legibility
- Up to 10 heating circuits can be controlled with one master user module
- Can be combined with a remote control or user module
- 3 heating programmes with up to 6 options for switching times and temperature settings per day
- 1 hot water programme with up to 6 options for temperature settings and boiler load times per day
- Central operating unit for all buffer loading functions
- Display with backlight ensures good legibility

A wealth of options simple to operate

The two backlit operating units for the living area are simple and intuitive to operate. The required changes and settings are performed by simply turning and pressing of the buttons.

Remote control

Pushbutton for selecting operation

The pushbutton for selecting operation allows you to change operating mode at the touch of a button. You can set automatic mode, heating mode, temperature decrease mode and stand-by mode.

Adjustment wheel for comfort

The adjustment wheel for comfort can be used to change the set nominal room temperature by $\pm 3^{\circ}\text{C}$.

User module

Shortcut keys

The 5 shortcut keys can be used to quickly and easily select the key settings (operating mode, comfort, hot water, eco/party, holiday programme).

Shortcut info key

Pressing the shortcut info key switches the display straight to the info level with all relevant temperatures to the system (such as actual and nominal values for room temperature, hot water temperature and flow temperature) can be read.

Push button

Use the pushbutton to exit a menu item at any time without saving settings or changes.

Set button

Pressing the set button takes you to the menu. The individual menu items can be opened by simply turning and then pressing this button.

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