

# Smart heating system with wireless thermostats & smartphone control for every room

FOR WATER BASED UNDERFLOOR HEATING

*AirPatrol*  
**SmartHeat**

Set  
the ideal  
temperature  
in every room  
and save  
on energy  
costs



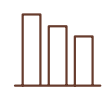
**ROOM BY ROOM**  
Control up to 10 rooms for  
ideal comfort in every room



**PERFECT TIMING**  
Set timers, schedules and  
notifications for every room



**RELIABILITY**  
Works in any room,  
from anywhere



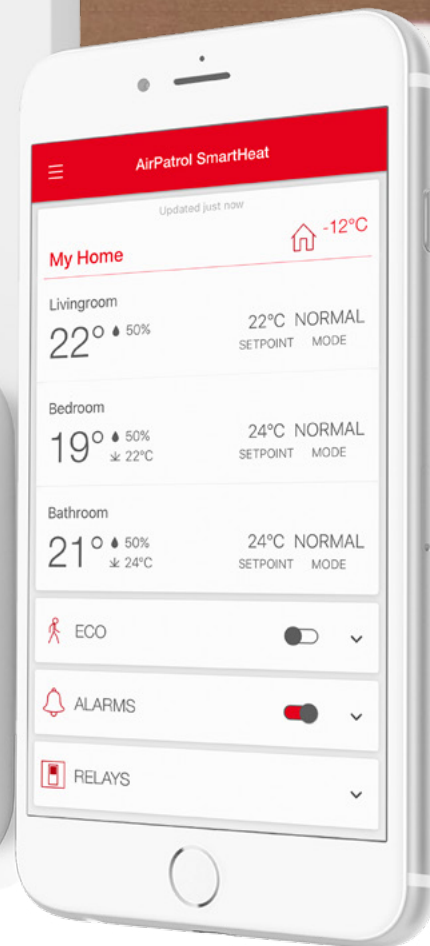
**EFFICIENCY**  
Save up to 25% per year on  
your energy costs



**COMPATIBILITY**  
Suitable for all water based  
underfloor heating systems

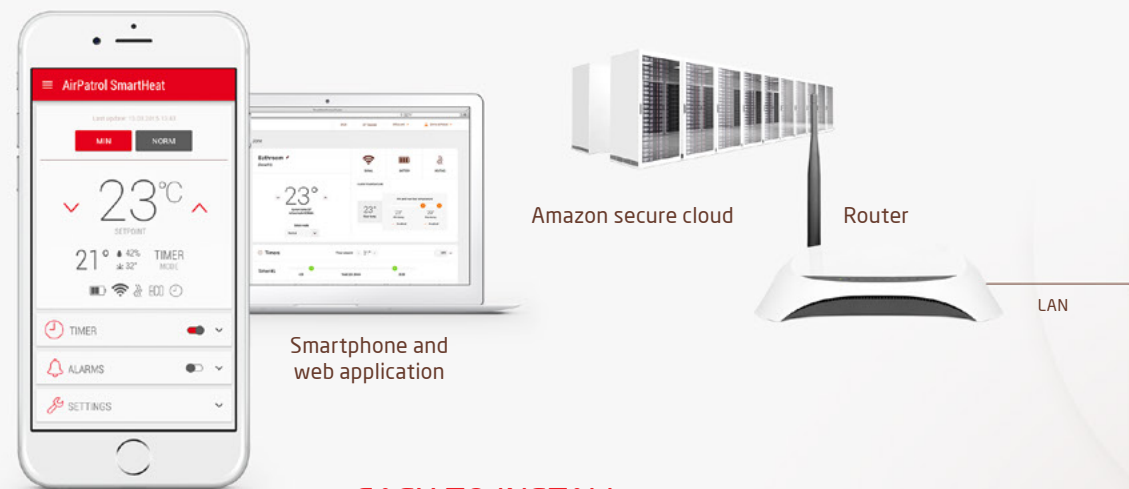


**PROTECTION**  
Valve and frost protection,  
notifications to guard your home





# HOW IT WORKS



## EASY TO INSTALL

ControlUnit is at the center of AirPatrol SmartHeat system. It can be connected to any water based underfloor heating system's manifold. SmartHeat can then begin to control each room's heating individually in up to 10 rooms.

## EASY TO USE

You can set the perfect room temperature, weekly schedules and energy saving parameters either from RoomUnit wireless thermostat or via smartphone/web application. All your data is safeguarded at Amazon secure cloud.

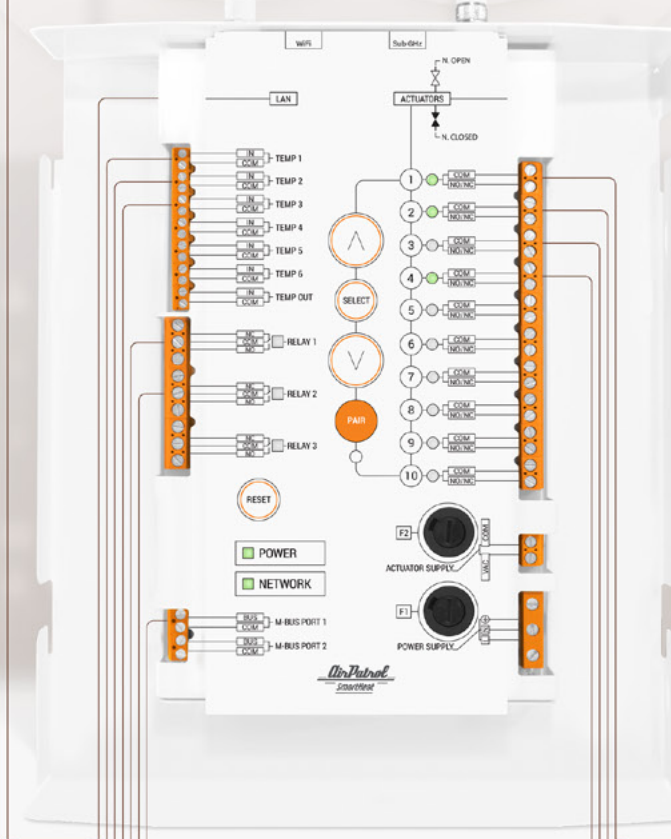
## IDEAL TEMPERATURES EVERYWHERE

In addition to setting the ideal room temperature throughout your home, ControlUnit can monitor up to 6 temperature readings + the outside temperature to create the most comfortable indoor temperature.



## COMPLETE OVERVIEW

SmartHeat M-BUS connection gives a complete overview about energy consumption at home. Easily add M-BUS water, electricity, flow or heating meters.



## EXTREMELY RELIABLE

ControlUnit and RoomUnits are connected via radio which guarantees that the system is fully functional even when internet connection is lost.

## PERFECT FIT FOR EVERY ROOM

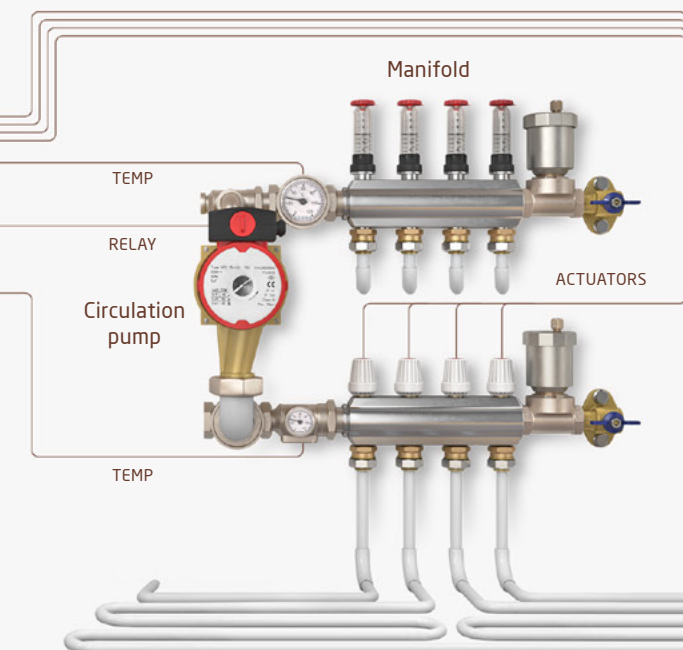
SmartHeat RoomUnits come in two versions - with and without infrared floor sensor. Infrared floor sensor is ideal for bathrooms and rooms with exclusive floors that have specific temperature needs. Standard RoomUnit is perfect for every other room.

## PROTECTS YOUR HOME

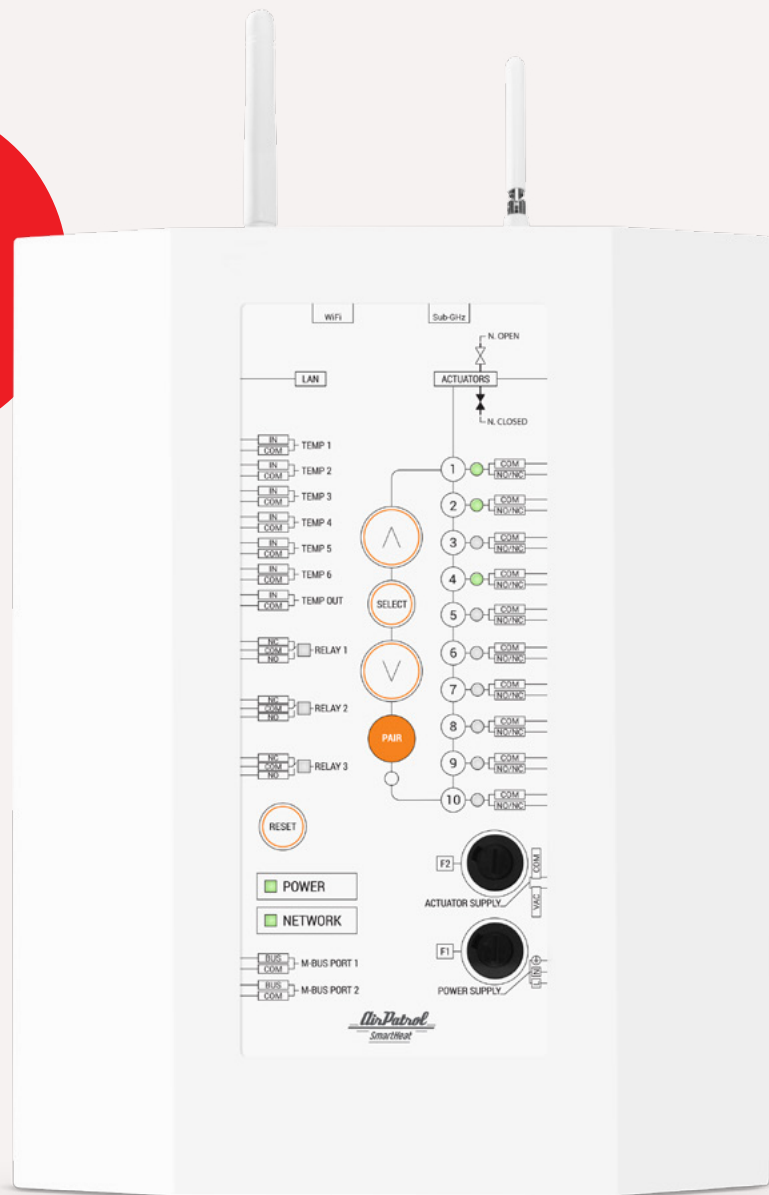
ControlUnit shuts and opens valves at an optimal interval to make sure they will stay rust-free, significantly reducing leak risks. Frost protection and notifications to your smartphones will give you the additional peace of mind in knowing that your valuables are kept in proper conditions.

## MAXIMUM SAVINGS

SmartHeat can automatically turn on/off any electrical device via its smart relay switches. Stop wasting electricity on boiler heating when you do not need it.



Our  
smartest  
heating  
control unit  
for your  
home



# SmartHeat ControlUnit

ControlUnit is at the center of AirPatrol SmartHeat system. It can be connected to any water based underfloor heating system’s manifold. It can then begin to control each room’s heating individually, creating ideal temperature throughout your home while helping you save on energy costs.

## Controls up to 10 rooms

A single ControlUnit is capable of controlling 10 different rooms or 20 contours in total, which makes it perfectly suited even for a colossal home.

## Smart control with temperature sensors

SmartHeat enables to monitor various temperatures. Just connect temperature sensor to the Control Unit and it will start reading for example heating water temperature, domestic water temperature, outdoor temperature, etc. It is so smart that it even calculates temperature differences for you if needed. Connect up to 6 temperature sensor to measure all the different temperatures plus outdoor temperature.

## Wireless control wherever you are

SmartHeat ControlUnit is connected to internet via LAN and WiFi connection and can easily be operated via smartphone or web application.

## Controls your boiler or other electrical devices

ControlUnit can be connected to any relevant electrical device such as a boiler, circulation pump or an electrical heater. SmartHeat ControlUnit will make sure that no unnecessary electrical waste is made by turning the devices ON or OFF only when needed.

## Total overview of energy usage

SmartHeat ControlUnit can be connected to a heating energy meter and electric energy meter and it’s web or smartphone application will give you a detailed overview of energy usage. This will help you save even more.

## Technical specifications

Number of heating zones	10	up to 10 different zones / RoomUnits
Max number of RoomUnit Thermostats	10	at least 1 RoomUnit is required
Max number of actuators	1 zone = 2 actuators	up to 2 actuators per one connection port
	10 zones = 20 actuators	Maximum 20 actuators per one ControlUnit
Connection ports for temperature sensors	1x Outside temperature	1x included in package, 5m cable, -30..+80 °C
	6x Various temperatures	3x included in package, 3m cable, -30..+80 °C
Actuator type	Normally Open / Normally closed	Selectable from ControlUnit
Valve protection function	1 open/close cycle per 84 hours	Protects valves from getting stuck
System frost protection mode	System min temperature is 5 °C	Protects pipes and heating system from freezing
Connection ports for relays	3x 6A (3x 1400W @230V)	For various electrical devices
Communication ports	1x LAN	Internet connection
	2x M-BUS	Energy meter, heating meter, water meter, etc.
Connection ports for CU power	1x 230V	
Connection ports for Actuator valves power	1x 230V	24V with external transformer (not included)
Communication channels	Ethernet LAN	Internet connection
	WiFi 2,4GHZ, b/g/n	Internet connection
	Radio, 868MHz sub-GHz	RoomUnit connection
Communication tools	RoomUnit	AirPatrol SmartHeat RoomUnit Thermostat
	SmartPhone application	Android, iOS
	WEB	PC, MAC
Protection type, IP class	IP20	
Dimensions	340x210x48,5mm (LxWxH)	Antennas included, L 260mm without antennas
Weight	1730g	
Package dimensions	270x350x120mm (LxWxH)	
Package weight	2100g	
Storage temperature / humidity	-30..+70 °C / 10..95%, non-condensing	
Operating temperature / humidity	-20..+50 °C / 10..95%, non-condensing	
EAN code	4742859012129	



# SmartHeat RoomUnits

SmartHeat RoomUnit thermostats are plug-and-play devices that monitor and control the temperature of your rooms.

## Any room, any floor

There are two types of SmartHeat wireless thermostats - with and without an infrared floor sensor. RoomUnit thermostat with infrared floor sensor makes sure that your bathroom floor is set to the ideal and that the more demanding floor surfaces are kept safe. The regular wireless thermostat will take care of every other room.

## Fantastically easy to use

Clear back-lit display makes checking the readout easy on the eyes. The elegant buttonless design will fit right in to any interior style. Changing the settings is intuitive and can also be done on a smartphone or web application. temperature of your rooms.

## All included

SmartHeat wireless thermostats use 3 AAA batteries for power source. The batteries as well as everything else that you need to set the thermostat up is included in the package. A set of batteries will last for about 2 years and the RoomUnit will let you know when it is time to change them.

## Technical specifications

RoomUnit Thermostat types	2: Normal / With InfraRed floor sensor	
Communication channel	Radio, 868MHz sub-GHz	
Communication range	up to 300m* / 50m**	*In open field / **Indoors
Power source	3xAAA batteries	Included in package
Battery life	~2 years	
Screen	LED backlight	White LED
Sensors	Temperature sensor	-30..80 °C
	Humidity sensor	0-100%
Display information	Room temperature	
	Set-point temperature	5..30 °C
	Outside temperature	-30..80 °C
	Floor temperature (IR sensor)	5..40 °C
	Mode	Normal, ECO, Timer, MIN
	Battery level	4 levels
	Wireless signal	3 levels
Protection type, IP class	IP20	
Dimensions	88x88x26mm (LxWxH)	
Weight	155g (125g without batteries)	
Package dimensions	134x122x55mm (LxWxH)	
Package weight	300g	
Storage temperature / humidity	-30..+70 °C / 10..95%, non-condensing	
Operating temperature / humidity	-20..+50 °C / 10..95%, non-condensing	
RoomUnit Thermostat EAN code	4742859012136	
RoomUnit Thermostat with IR EAN code	4742859012143	





## PACKAGE INCLUDES

ControlUnit  
 User manual  
 3x 3m temperature sensors  
 1x 5m temperature sensor  
 Easy fix cable ties

# All ready to go

SmartHeat product packages are compiled so that you have all that you need to set the system up and start heating smart.

RoomUnits are fully assembled to be taken from the box and mounted on the wall. Intuitive plug-and-play features mean that almost everyone can set the RoomUnit wireless thermostats up without the aid of the quick manual.

ControlUnit is kitted with 3 temperature sensors, easy fix cable ties and all that is needed to create a fully functional SmartHeat system. Only some additional tools for mounting may be needed.



## PACKAGE INCLUDES

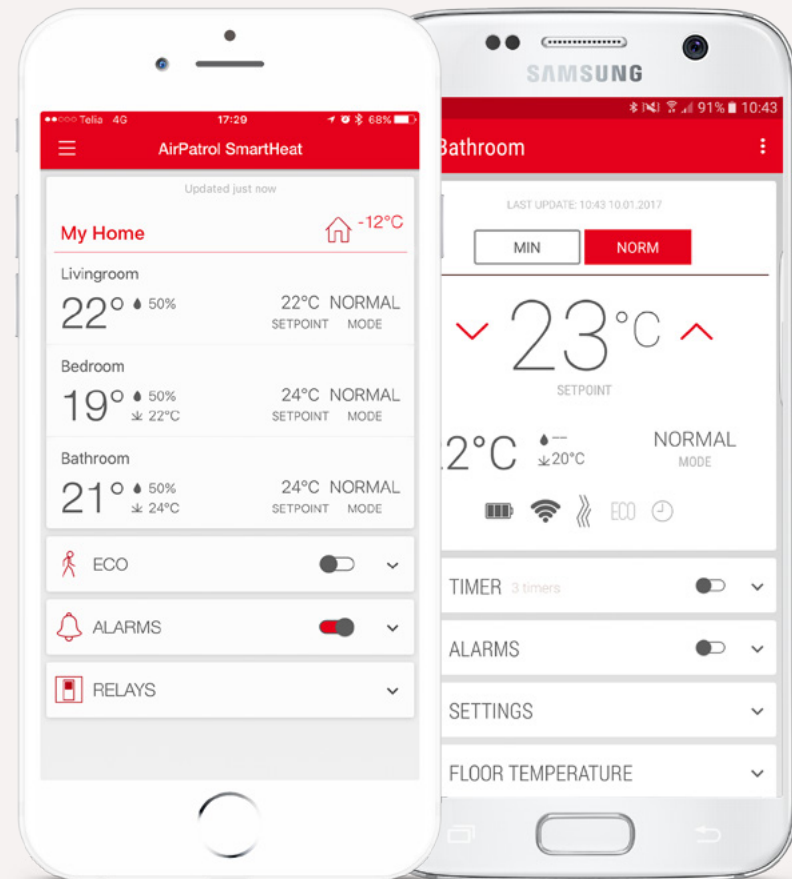
RoomUnit Wireless Thermostat with Infrared Floor Sensor  
 3x AAA batteries  
 Quick manual  
 Wall connector  
 Adhesive tape



## PACKAGE INCLUDES

RoomUnit Wireless Thermostat  
 3x AAA batteries  
 Quick manual  
 Wall connector  
 Adhesive tape

# Control the heating in your home from anywhere. SmartHeat application is on the web, iOS and Android.



## MOBILE APPLICATION

This is the ideal tool to monitor and control your home heating system.

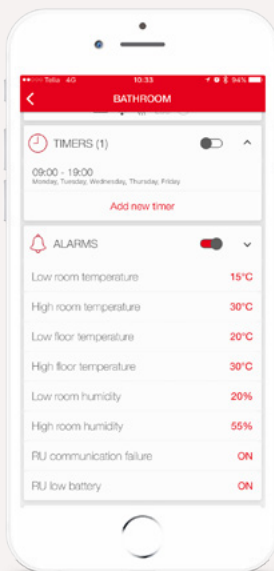
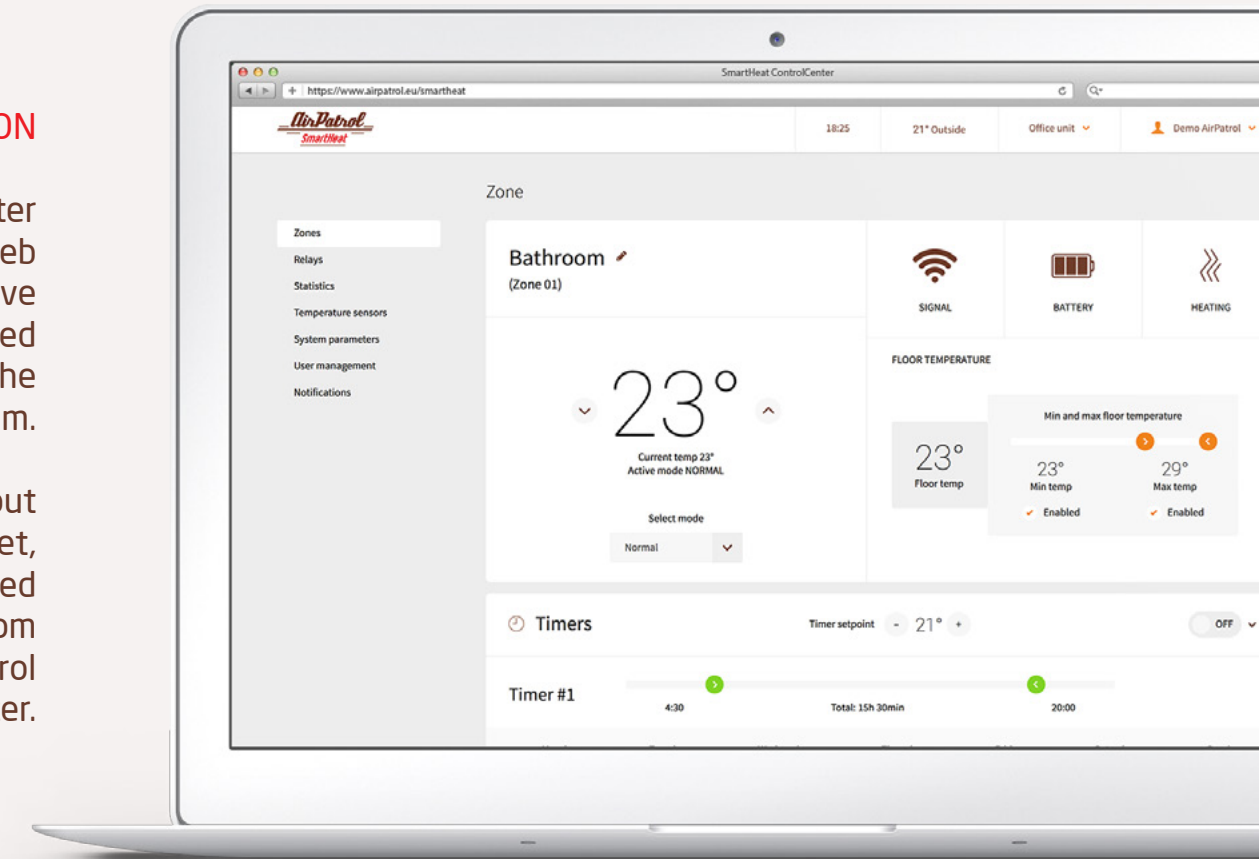
AirPatrol SmartHeat application is the most intuitive heating control app ever.

Everything you need to know about your home heating system is with you wherever you go.

## WEB APPLICATION

This is the master control tool. Web application will give the most advanced experience of the system.

Everything about SmartHeat can be set, customized, monitored and controlled from this master control center.



## NOTIFICATIONS FOR EACH ZONE / ROOM

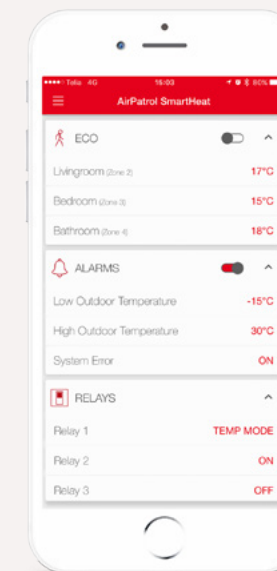
Set timers for each room so you have perfect temperature at all times.

Enable notifications and relax, the system will let you know if anything is out of limits.



## CONTROL ANY ELECTRICAL DEVICE

Easily connect the back-up heater for those extreme weather conditions. Now it will automatically turn on based on outside temperature or set timers or just control it manually with your phone. Boiler, circulation pump and other devices can be controlled as well.



## EVERYTHING IS DONE WITH JUST A SIMPLE CLICK

All most important things are on the first screen.

ECO - turn on/off away mode when leaving home for longer period.  
System notifications  
Relay control

GET THE  
SMARTHEAT  
APP!

