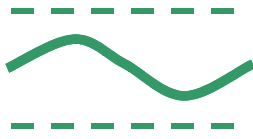


Advanced Heating Control

Reduce waste. Stay warm.



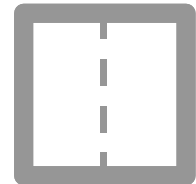
TEMPERATURE
SMOOTHING



OPTIMUM
START



WEATHER
COMPENSATION



ZONE
CONTROL

PassivEnergy's **Advanced Heating Control** delivers the latest ways to control your central heating for better efficiency, lower cost, and greater comfort.

There are four ways we can help:

Temperature Smoothing

Many conventional boiler controls use a thermostat based on a bi-metallic strip. In simple terms, this is a strip of metal that bends as it gets warm, alternately making and breaking an electric circuit. It's an automatic on/off switch for your boiler.

The trouble is that the air temperature actually has to over- or under-shoot the setting by a considerable margin (several degrees) before the switch operates. This means large temperature swings every few minutes, which are uncomfortable, and which encourage you to turn up the thermostat during the cold periods.

PassivEnergy's **Temperature Smoothing** uses a much more accurate electronic temperature sensor, and anticipates how the temperature in your home will change as the boiler is switched.

The result is much tighter temperature control, giving better comfort. And because the temperature doesn't dip, you can turn it down and save money even as you stay warm.

Optimum Start

We all like to get up to a warm room in the morning, or come home to a warm home in the evening. But how long does it take your house to warm up? Most of us don't know, so we set the boiler to come on "in plenty of time" to make sure the house is warm. But because we're asleep (or out) we never know how much money we might be wasting.

PassivEnergy's **Optimum Start** changes that. It actually learns how quickly your house warms up (based on internal temperature), and waits as long as possible before turning on the boiler.

This means we can change the way you configure the system. Instead of guessing when you need the boiler to come on, you just tell the system what time you plan to get up, or come home, and **Optimum Start** does the rest, making sure your home is warm when you need it. But not before.

Weather Compensation

We've all felt it. You set the boiler to come on half an hour before you get up, but it is such a cold night that your room is still cold when you get up. So you change the setting, and then forget to put it back when the weather improves.

PassivEnergy's **Weather Compensation** builds on Optimum Start and Smoothing to change how it controls the boiler based on the outside temperature. If it's cold outside, we effectively "turn the heating up" – keeping you warm. But if it's warm outside, we can take advantage by "turning the heating down" – saving you money.

Zone Control

Why heat your whole home if you're only using part of it? Government legislation and best practice are increasingly demanding that larger houses be split into zones in which the heating can be managed independently.

If your home has a heating system that's split into zones, PassivEnergy's **Zone Control** lets you specify different settings and preferences for two zones today (additional zone control will be possible in the future).

Even if you don't have zones, installing more than one temperature sensor could soon let PassivEnergy manage the temperature of your house more appropriately depending on where you are in it.

So now you need only heat downstairs if there's no one in a bedroom, and if you need the heating on at night, you don't have to heat the whole house.

Benefits

If your central heating system currently has no heating controls installing PassivEnergy Advanced Heating Controls could save you up to 18% of your heating bill. Even if you have conventional heating controls (a thermostat and ordinary timer or programmer), PassivEnergy could still save a significant amount **and** make your home more comfortable.