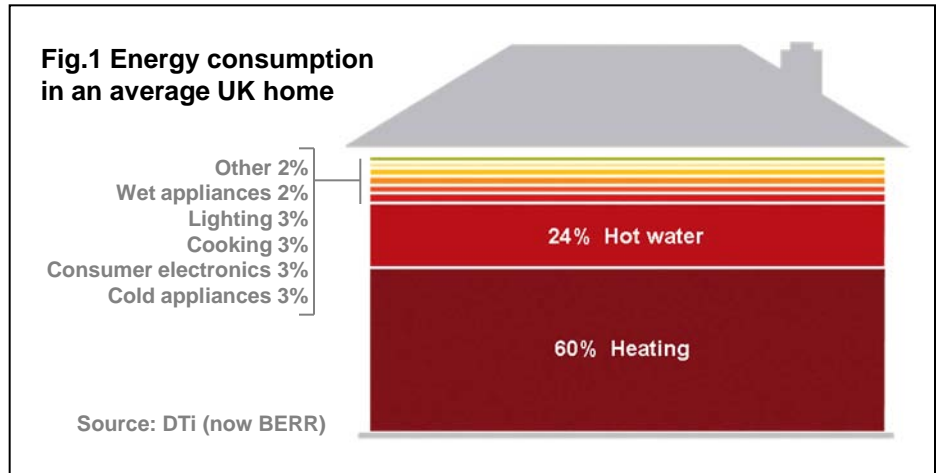




Wireless controls

Why are wireless controls important in my heating system?

Figure 1 illustrates that Heating and Hot Water provision account for 84% of the energy consumption within a typical home in the UK. This figure is taken from research by BERR (The Department for Business, Enterprise & Regulatory Reform). The efficiency of a heating system can be improved by adding controls (see FAQ sheet 'Why should I add controls to my heating system?' for more information).



The biggest barrier to changing a heating system is the fact that what is installed already usually dictates what is achievable now. With wireless controls, this restriction is removed it is now easier to improve the efficiency of a heating system. They can be added to almost any system with the absolute minimum of fuss, mess and disruption.

Advantages of wireless controls:

- Can be fitted in places where no cables have been laid
- It is possible to divide a system into zones which are controlled to suit how you live
- Advanced control can improve control efficiency using data transmitted
- The demands from different zones can be synchronised so that they are satisfied simultaneously (instead of one at a time) making the boiler run more efficiently

What is possible with wireless controls?

The simplest upgrade to a heating system is to add a room thermostat where one is not fitted. This upgrade will have the biggest effect on a system, saving up to 30% of the heating bill (source British Gas).

A further improvement on that is to fit a thermostat that uses Time Proportional Integral (TPI) control to help condensing boilers run more efficiently. TACMA tests indicate that under steady state conditions as much as 10% energy savings can be made with TPI. This would be reduced by seasonal and operational losses. But in addition, because the control is so much more accurate, the set point can be reduced, without loss of comfort, introducing extra savings. All Honeywell electronic On/Off controls use TPI. For more information see FAQ 'TPI control'.

Rather than controlling the whole house as a single heating zone, divide it up into zones that are used in the same way. Keep the bedrooms at a cooler temperature than the living room. Allow the kitchen heating to close down when you are cooking. Zoning is possible with wireless radiator thermostats. They are able to receive variable set points from a programmable room thermostat, then send demand signals to the wireless receiver that will switch the boiler on and off as required.

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FAQ Sheet



Wireless controls

Can you tell me the Honeywell wireless heating controls available?

The following Honeywell wireless products are available:

These controls can be used to operate a boiler more efficiently using wireless connections.



DT92
Digital Room
Thermostat



Y6630D
Analogue Room
Thermostat



CM927 & CM921
1 & 7 Day Programmable
Thermostats



CM727 & CM721
1 & 7 Day Programmable
Thermostats



Y87RF*
Modulating Room
Thermostat



CM957*
Modulating Programmable
Room Thermostat



CM Zone
Zoning System



HCE80
Underfloor Heating
Controller

Is there any interference with other wireless products?

Honeywell have developed robust wireless protocols that ensure any signals transmitted are received correctly and acted upon. Our products operate in the 868MHz band, transmissions are restricted to intermittent signals with a utilisation of less than 1%. This means that not only are the signals clear and strong, but there is little chance of them being affected by other signals.

All Honeywell wireless products have a range of 30 metres. Modulating controls must use the OpenTherm receiver. All other controls use the same receiver (part number BDR91A1000) and signals with unique identity codes. They can therefore be mixed and matched with no chance of interference between them.

Where can I find out more information on wireless controls?

For more information visit the Download section at honeywelluk.com

*Modulating Controls

Some modern boilers can be made to operate more efficiently with modulating controls using OpenTherm connections. Check to see if your boiler is compatible. All other boilers can benefit from wireless control using TPI. For more information see FAQs 'OpenTherm', 'Modulating control' and 'TPI Control'.

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Technical support for installer only: Ring 08457 678999 (local rate charge from within the UK) or e-mail technical.support@honeywell.com

Sales enquiries: Ring 01344 656591 or e-mail insidesales@honeywell.com

Sales support literature: Visit the Downloads section of honeywelluk.com, ring 0800 521121 (UK only) or e-mail literature@honeywell.com