

Where to Install Your Thermostat

The correct placement of your underfloor heating thermostat is essential to ensure accurate temperature control, efficient performance, and consistent comfort throughout your home. Whether you are installing an electric or water-based system, the thermostat acts as the main control point, regulating floor or room temperature and optimising energy use. Installing it in the right location is just as important as setting up the heating system itself.

A thermostat should always be positioned in an area that accurately represents the average temperature of the room. It should be installed on an interior wall, away from direct sunlight, draughts, and heat sources such as radiators, windows, or appliances. If the thermostat is placed too close to a heat source, it can register false readings, causing the system to turn off prematurely and leave the room colder than intended. Conversely, placing it in a cold or draughty location may cause the system to overheat as it continually tries to compensate.

For most rooms, the ideal installation height for a wall-mounted thermostat is around one and a half metres above floor level. This allows the sensor to measure ambient air temperature accurately and ensures the controls are easy to access. Some thermostats are designed to measure floor temperature using a probe sensor rather than room air. In these cases, the probe should be positioned between the heating elements, embedded within the floor structure, and kept clear of heating cables or pipes to prevent false readings.

In bathrooms and other high-moisture areas, special care must be taken to comply with electrical safety regulations. Thermostats should be installed outside the bathroom or within an appropriate IP-rated housing to prevent moisture ingress. The floor sensor can still be fitted inside the room, allowing the thermostat to control the heating safely from a nearby location such as a hallway or adjacent wall.

Wireless and smart thermostats offer greater flexibility in placement. These models can be mounted almost anywhere and controlled remotely through a smartphone or home automation system. When using wireless controls, it is still advisable to avoid areas with poor

signal reception or strong interference from metal structures.

Proper thermostat positioning not only improves comfort but also plays a crucial role in energy efficiency. When located correctly, the system will maintain steady temperatures without overworking, helping to reduce energy bills and prolong the life of the heating components.

Before installation, always consult the manufacturer's guidelines for your specific thermostat model, as sensor types, wiring methods, and recommended locations may vary. It is also important that any electrical connections are carried out by a qualified electrician to ensure compliance with current building and safety standards.

Choosing the right thermostat location can make a noticeable difference in both comfort and cost savings. For guidance on selecting and installing the ideal control system, explore our range of [Smart Thermostats](#) and Electric Underfloor Heating Controls, or speak to one of our experts for tailored advice on optimising your setup.