



Manufacturer of Thermo-dynamic electric Radiators, Towel Rails & wireless Heat controller
www.kalirel.co.uk

Classic Range Control Options

Each Radiator comes with a flex pre-wired to the thermostat.

The flex is wired as follows:-

Brown = Live
Grey = Neutral (to be sleeved blue in accordance with B.S)
Black = **PILOT WIRE**

The radiator thermostat is “class 2” , double insulated and therefore, earth should not be connected.

If the radiator is to be a “stand alone” item, it can simply be hard wired into a switched / fused spur. In this situation, the **Black Pilot Wire** is not connected to any terminal and should be insulated.

If the radiator is to be controlled independently, there are various types of “socket box” programmers available on the market. Grasslin manufacture a digital or mechanical model which has proved very popular with installers and specifiers.



In this instance, the radiator is wired to the programmer and the programmer would be fed from an adjacent mounted switched / fused spur. The programmer would then be set to supply power to the radiator at the required on / off times.

This particular method of installation has proved popular with clients as it minimises the level of wiring when using existing outlets and also provides total control of every radiator to be able to work completely independently.

In this situation, the **Black Pilot Wire** is not connected to any terminal and should be insulated.

If the radiators are to be controlled by a centrally mounted programmer, then a special Pilot Wire Programmer should be purchased (such as the Micro Driver 2H FP from Delta Dore).



In this instance, if existing outlets are to be used, then a new pilot wire must be run back from every radiator to the programmer (via a junction box where the pilot wires are split into zones and then 1 or 2 zone cables are fed to the programmer).

If new wiring is being installed then the installer must run 3 core and earth cable. The earth cable should be terminated in the back box and **must not be connected**.

The live and neutral would be connected as normal and the 3rd core (usually black) would be connected to the pilot wire on the radiators’ flex. The pilot wire should be separately switched, so that it is able to be isolated. Therefore, at each point of use, there would be a switched / fused spur for the live and neutral supply and an adjacent unswitched / fused spur for the pilot wire. The pilot wires would then be connected as described above.

In most cases when new wiring is installed, the installer will use 1.5mm 3 core and earth cable as this is easier to work with and can carry up to approx. 16 amps. Kalirel radiators have a maximum 10 amp rating.