

# Powrmatic Control Systems

Industrial & Commercial Heating Systems.



[www.powrmatic.co.uk](http://www.powrmatic.co.uk)



CE

# MC200V3

(Single Unit/Cabinet Heater Control)

**The MC200V3 is a digital, high specification controller for individual heaters that provides the flexibility of variable time and temperature control as well as optimised start/stop prediction. Adjustable frost protection, remote burner reset and summer fan-only operation are also included. All cabinet heaters are factory fitted with the MC200V3 control as standard.**

## Flexibility

The MC200V3 has the ability to set a variety of time and temperature programs, whilst still enabling the user to adjust the temperature within controlled limits if required. Adjustable frost protection protects against low temperatures. The MC200V3 also allows for remote burner fault reset, and summer fan only operation.

## Cabinet Heaters

Heaters are supplied ready for automatic operation and are complete with safety and comfort controls. The Powrmatic CPx, VPC, TE are factory fitted with the MC200V3.



## Economy

One of the key energy-saving features of the MC200V3 is its ability to set a variety of time and temperature programs, including optimum start configuration with weather compensation. By monitoring the previous performance of the heater and taking account of ambient temperatures, the MC200V3 can determine the optimum time to turn the heating on. 'Optimum stop' can be configured to save energy at the end of the heating period.

The MC200V3 can provide direct control of both high/low and modulating burners – the latter via an internally generated 0-10V signal.

The user keypad and back-lit display allows easy selection of heating and fan-only modes, override functions and full reset. The MC200V3 will also provide a read-out of the burner's operating hours to ensure servicing at appropriate intervals. When programmed with the correct data, it can also provide an indication of the running costs of the appliance.



## Security

The MC200V3 features password-controlled access. This can be locked in various combinations to allow different levels of password-controlled access for different users. There are two levels of password-controlled access, the second level being for use by commissioning and servicing engineers. This provides access to parameters normally used only in the initial setting of the controller, accessing the fault log and resetting the system.

## Ease Of Use

The MC200V3 features an easy-to-use interface for selection of heating and fan-only modes, override functions and full reset. These can be locked in various combinations to allow different levels of password-controlled access for different users.

## Location

When used with a remote sensor the MC200V3 can be sited wherever is convenient, such as in a manager's office. If used with its internal temperature sensor, the unit should be located in a spot that is generally representative of the area to be heated. In such cases it should be sited 1.7m above floor level away from draughts and direct sources such as sunlight or heat emitters. It should also be in an easily accessible position for programming and operation.



# Powrtrol & Powrtrol RR (Remote Reset)

(Single Unit Heater Control)



Powrtrol



Powrtrol RR  
(Remote Burner Fault Reset)

**The Powrtrol & Powrtrol RR are the rugged specification model. All controls are kept in a metal constructed box, giving you digital timed control, and twin day and night time temperature control. Both control devices are designed for ease of use and to maximize the performance of your heating system controlling a single unit.**

**The Powrtrol RR has the added benefit allowing for remote burner fault reset, unlike the standard Powrtrol.**

## Robust Design

The Powrtrol and Powrtrol RR are designed for a rugged life. With an all metal box construction and individually replaceable parts, a tough design which is easily repairable, gives the controller long life in a hostile environment.

## Digital Time Controls

The Powrtrol and Powrtrol RR both have a protect digital timer. The controls are simple to program and reset if any problems occur with your heating system.

## Economy

The Powrtrol and Powrtrol RR have a digital control allowing for 16 on/off programs throughout the weekly period. The unit has two separate thermostats each with a single dial. Both thermostats are secured away and accessed by 2 screws.

## Location

The Powrtrol and Powrtrol RR unit should be located in a convenient spot that is generally representative of the area to be heated. It should be sited 1.7m above floor level away from draughts and direct sources such as sunlight or heat emitters. It should also be in an easily accessible position for programming and operation.





# MC300 Multi

(Multiple Unit Heater Control)



**The all new MC300 Multi has the ability to control up to five heaters via the application of a slave PCB. For ease of installation and to reduce installation time and cost, slave pcs are factory fitted with connections between master and slave enabled with low voltage control cable.**

## Multiple Connectivity

When controlling multiple heaters the MC300 Multi acts as the master unit and communicates with a factory-fitted PCB on each of the 'slave' heaters it controls, thereby reducing the cost and time of installation. Further cost reductions are achieved through the use of low voltage control wiring (5-core for on/off, 6-core for high/low, 7-core for modulating units).

## Flexibility

The MC300 has the ability to set a variety of time and temperature programs, whilst still enabling the user to adjust the temperature within controlled limits if required and adjustable frost protection against low temperatures. The MC300multi also allows for remote burner fault reset, and summer fan only operation.

## Economy

Optimum start technology continually monitors the heating system's previous performance to determine the optimum time to turn heating on to ensure set point temperatures are achieved at the required time, taking account of ambient temperatures. Optimum stop can also be used to save energy at the end of the heating period.

## Security

The MC300 features password-controlled access, This can be locked in various combinations to allow different levels of password-controlled access for different users. There are two levels of password-controlled access, the second level being for use by commissioning and servicing engineers. This provides access to parameters normally used only in the initial setting of the controller, accessing the fault log and resetting the system



## Ease Of Use

The MC300 Multi features an easy-to-use interface for selection of heating and fan-only modes, override functions and full reset. These can be locked in various combinations to allow different levels of password-controlled access for different users.

## Location

When used with a remote sensor the MC300 Multi can be sited wherever is convenient, such as in a manager's office. If used with its internal temperature sensor, the unit should be located in a spot that is generally representative of the area to be heated. In such cases it should be sited 1.7m above floor level away from draughts and direct sources such as sunlight or heat emitters. It should also be in an easily accessible position for programming and operation.



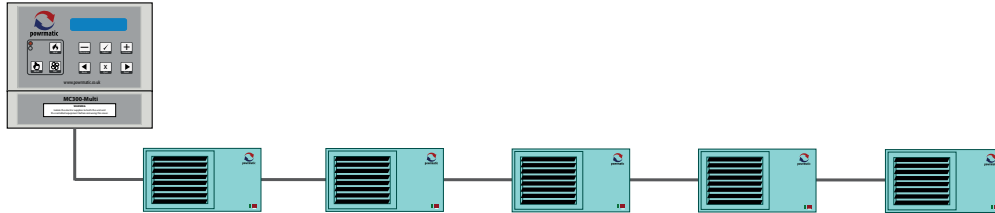
# MC300 Multi Connectivity

The MC300 Multi can be connected to each heaters slave PCB in various ways depending on your application setup. The maximum cable length between each heater is 100m.

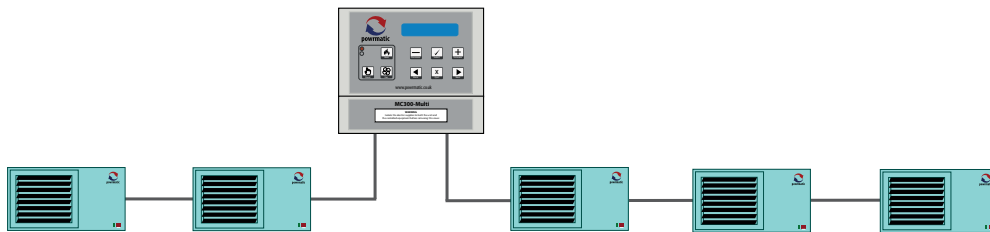
Unlike other multi zone systems, the MC300 Multi setup keeps costs extremely low as the factory fitted slave PCB connects each heater and not by another slave controller.

Here are just a few examples of how multiple heaters can be connected with the MC300 Multi.

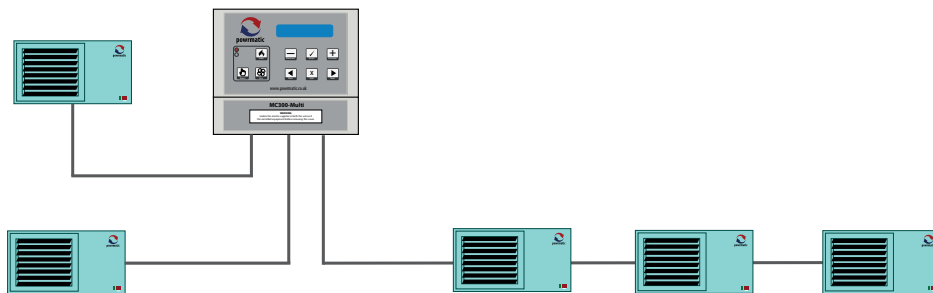
**MC300 Multi Master Control**



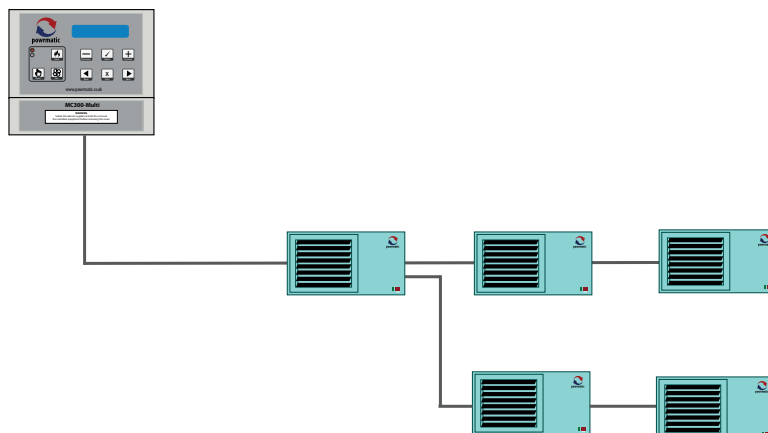
**MC300 Multi Master Control**

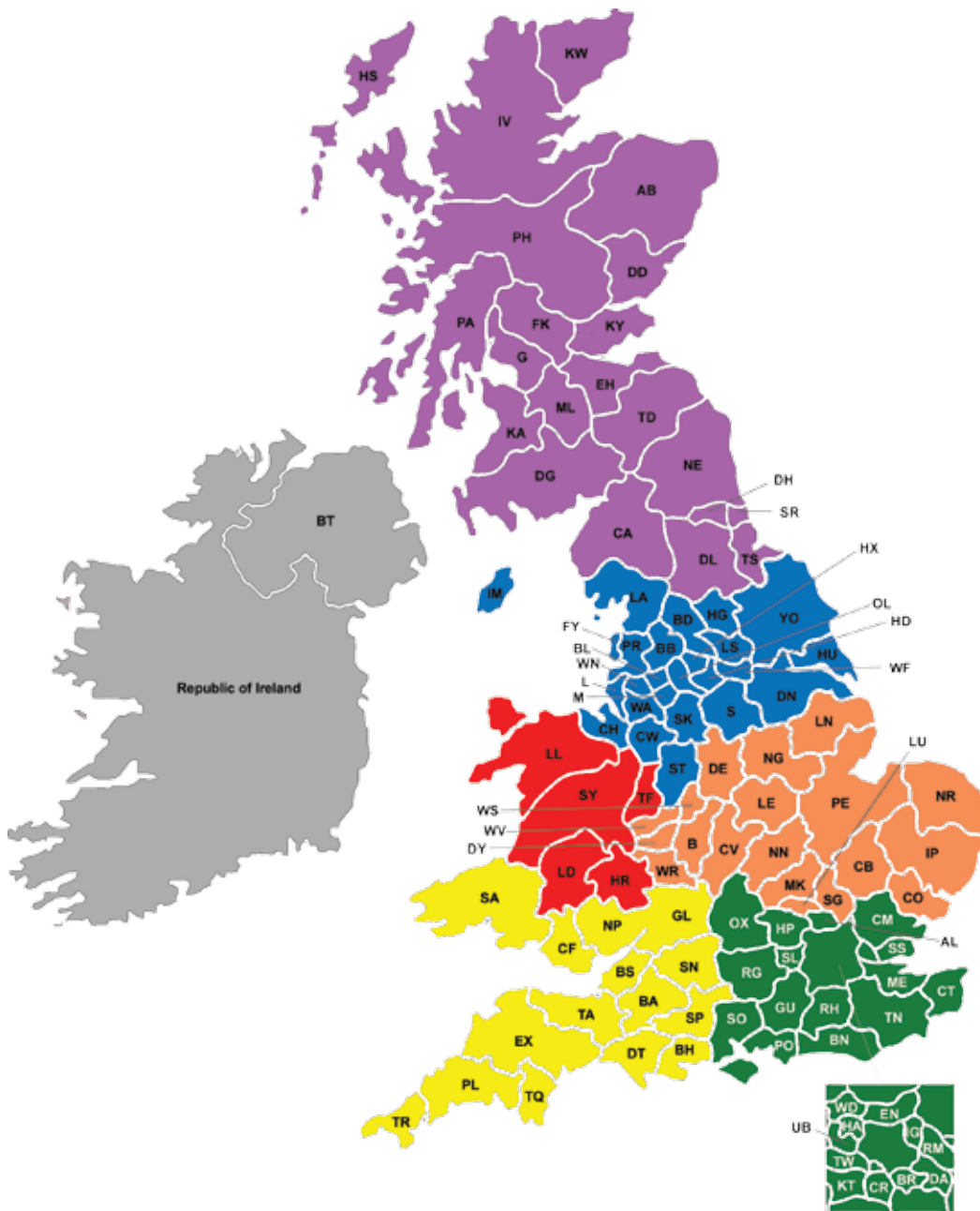


**MC300 Multi Master Control**



**MC300 Multi Master Control**





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