

# Hand held PICtroller - Instructions for use

*Note the PICtroller is not suitable for use with some DCC fitted locomotives.*

The PICtroller has four main controls - regulator, reversing switch, brake switch and mode switch. There are two LEDs - output (green) and overload (red) and two preset controls - inertia and max speed.

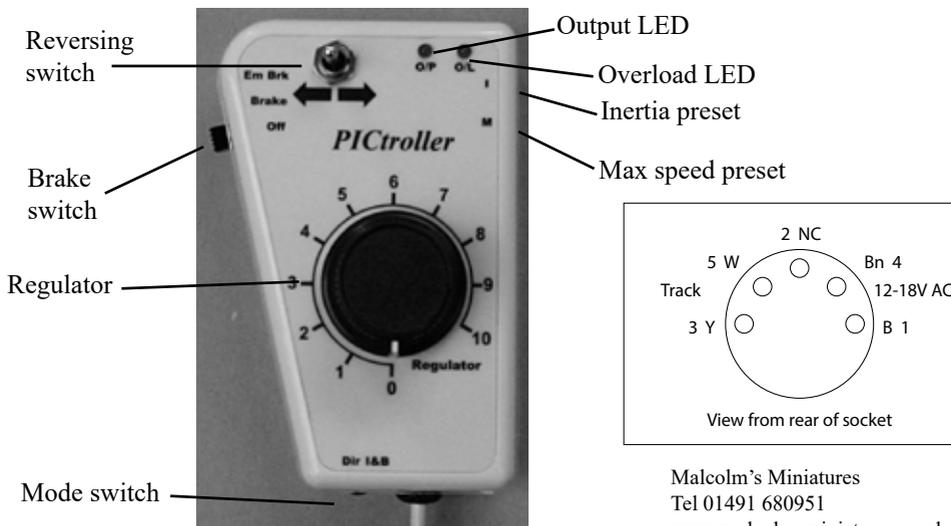
The PICtroller is provided with a 5 pin DIN plug and socket with four connections - AC in (Bn & B wires) and track out (W & Y wires). The pin connections for the socket are shown below. The PICtroller can be powered from a 12-18V AC or 18-24V DC supply (capable of supplying at least 750mA).

The mode switch allows two modes of operation - Direct and Inertia & Brake. In direct mode the regulator controls the speed directly. In inertia mode the speed gradually increases or decreases to the speed set by the regulator. In both modes the brake switch reduces the speed. The first brake position reduces the speed gradually, the second position (emergency stop) reduces the speed to zero immediately.

The inertia preset control sets the inertia and braking rates. The max speed preset control sets the range of the regulator control.

Like the panel mounted version of the PICtroller, the hand held version automatically detects the type of motor fitted to the loco - coreless (eg Portescap) or cored. If a cored motor is detected both LEDs flash briefly - for a coreless motor only the output (green) LED flashes.

If a high current (>750mA for cored motors - >100mA for coreless motors) is detected, the output is turned off and the overload LED lights. The PICtroller monitors the load and when the overload is cleared, the overload LED clears. If the overload occurs only for a short time, the previous output is restored otherwise the output resets to zero.



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The PICtroller is guaranteed against faults in manufacture for 1 year from purchase.