GAUGEMASTER ®

Gaugemaster
Electronic loco controller

MODEL DF DUAL TRACK CONTROLLER WITH FEEDBACK

WARNING: - THIS APPLIANCE MUST BE EARTHED. FOR INDOOR USE ONLY.

The controller should be regularly examined for potential hazards such as damage to the casing, cable or plug. In the event of any damage, the unit should not be used until the damage has been repaired. The unit should not be opened as it has no consumer repairable components. A repair service is available at the address shown below.

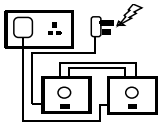
MAINS CABLE:

This unit is supplied fitted with a 3 amp fused plug. If this plug is not suitable for your supply, another plug must be fitted in the following manner :-

BLUE: To the small pin marked **'N'** or coloured **Black**.
BROWN: To the small pin marked **'L'** or coloured **Red**.
GREEN/YELLOW: To the large pin marked **'E'** or by the symbol ⏚

If any other type of plug is used, a 3 Amp fuse must be used in the mains circuit. If in doubt consult an electrician.

CAUTION: It is very important that the outputs of two or more control units are not connected together in parallel. i.e. outputs linked. If done, there is a risk of electric shock from a plug not inserted into a socket.



CONNECTIONS TO TRACK:

Connect the terminals marked "Track 1" to the section or track you wish to operate. Repeat with "Track 2". Reverse wires if the locomotive travels in the wrong direction on either track. Tracks 1 & 2 take their power from separate isolated transformer windings and are therefore suitable for Cab Control and Common Return wiring. Please ensure tracks/sections are correctly isolated from each other. The outputs of two or more control circuits must not be connected in such a way that both wires may accidentally be connected together, i.e. through switches or points, etc.

ACCESSORIES:

The “16v AC Accessories” terminals are for use with point motors and other AC electrical accessories, but are not suitable for Common Return wiring with the DC outputs. When used for point motors it is advisable to use a Capacitor Discharge Unit (CDU) to ensure successful operation. The “12V DC Accessories” terminals are for use with lighting, turntables and other DC electrical accessories.

OPERATION:

Each output level on your GAUGEMASTER controller is fitted with a red LED. At zero output the LED will extinguish, and as output level is increased will increase in intensity. Should the LED remain extinguished, or at any output level immediately go out then an overload condition has occurred and the unit has ‘tripped’. Having investigated and rectified the overload condition the unit should be reset in accordance with the instruction below. Please note that whilst a tripped condition exists it may be possible to measure a small no load voltage at the output. This is normal.

Each output pair is protected by resetable circuit breakers. Should an over load condition occur the appropriate LED will extinguish, and remain so irrespective of the output level set on the controller (See OPERATION). To reset the unit, having rectified the reason for the overload, turn the appropriate control knob to and zero wait approx. 30 sec. before using the equipment as normal.

FEEDBACK:

GAUGEMASTER feedback controllers feature a pulsed design, with excellent low speed running and Constant Speed over points, around curves and up and down gradients. A degree of motor heating and noise may be experienced with sustained low speed running. Not suitable for coreless motors such as Portescap or poor quality "N" gauge motors. This unit is suitable High Frequency Track Maintainers.

Outputs: Track1 0-12v DC Controlled } 1A Max
Accessories 12vDC Uncontrolled

Track2 0-12v DC Controlled } 1A Max
Accessories 16vAC Uncontrolled

GUARANTEE:

We undertake to replace, free of charge, any parts found defective within the lifetime of the unit, providing the item has not been tampered with and parts are still available for such a repair. This guarantee covers only the supply of replacement parts, labour cost for fitting of same and the cost of returning the unit to the customer or retailer. This Guarantee does not affect your Statutory Rights.
We reserve the right to vary design or specification without notice.

CONSTRUCTED TO EN60 742
A CATALOGUE ON THE FULL RANGE OF GAUGEMASTER PRODUCTS IS AVAILABLE

GAUGEMASTER CONTROLS plc, Gaugemaster House, Ford Road, Arundel, West Sussex, BN18 OBN.
Tel. No: **01903 884321.** Fax. No: **01903 884377.** E-mail: **gaugemaster@gaugemaster.co.uk.** Web site **www.gaugemaster.com**
Registered in England. Reg. No: 2714470.