

LocoMotive DCC 3 WiFi

Safe use of this product:

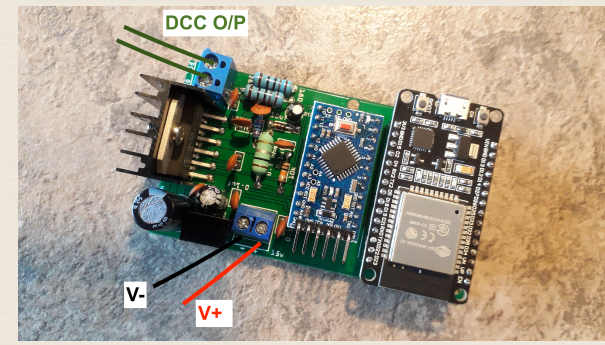
Suitable for use by persons over 14 years old only.
For indoor use only, do not expose to water or moisture.
Maximum environment temperature: 35 degrees Celsius
Ensure you use a safe 14 or 15 volt regulated DC power supply.
Power supplies with isolated outputs must be used. Isolated means that the output terminals of the supply are not electrically connected to the ground and/or neutral wires of the AC mains supply circuit.

2

LocoMotive DCC 3 WiFi - Disposal:

The enclosure for this product consists of 3D printed PLA.
Disposal of the enclosure :
Recycling: can be recycled using chemical or mechanical methods.
The printed circuit board and components should be taken to your local recycling centre to obtain advice on correct disposal or recycling.

3



LocoMotive DCC 3 WiFi

1.7 Amp version

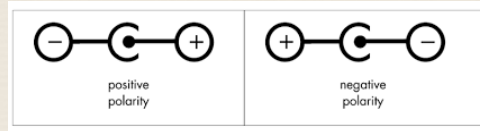
4

DC Power supply: DC only not AC

Do not use a model railway DC controller as a supply source - unless it is a true DC regulated 14v or 15v connected to V+ and V- terminals.

Any DC regulated 14/15v power adapter with a load rating of >2.0 amps is ideal. The controller is set to trip at a load of just over 1.9 amps. However, a similar type power adapter with a rating of 1 to 2.5 amps will operate the controller. In this case the current limit is set by the power unit and not the controller.

Please ensure the correct polarity of leads from the power supply before connecting.



6

LocoMotive DCC 3 WiFi

Full App Operating instructions

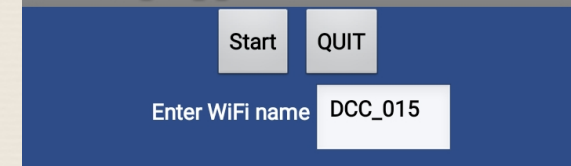
This App is available on the Google Play Store: Search for "LocoMotive DCC 3 WiFi"

If your device has a SIM card i.e. mobile phone, then go to Settings and turn OFF 'Mobile Data' as this stops the WiFi communicating with the controller.

Contact : Bill Cuthbert
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7

LocoMotive_DCC_2_WiFi v3

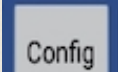


Initial setup of WiFi is required on your device. In the Settings area of your device, select 'DCC_xxx' and enter password 123456789 , Now turn on the App and press 'Start' button. You may have to go to settings again and switch WiFi off then on again.

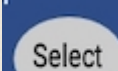
8

Configure each loco: Complete this while App is not connected to WiFi.

Press 'Config' to set up your roster of locos



On the this layout, press 'Select'.

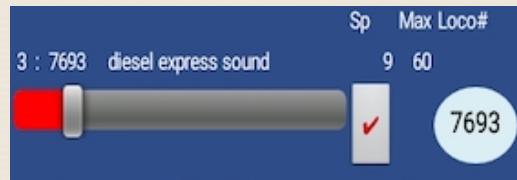


Choose a roster entry and enter the loco number, name and max speed. Tick all of the required functions for visibility and momentary action. Edit each function name . Remember to 'Save' before proceeding.

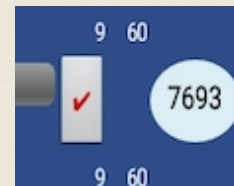
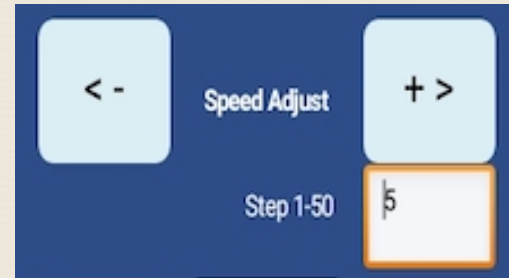
9

Controls layout:

Once the configuration of your locos is completed, the roster list is available and you may now select a loco to run on the layout by pressing the 'Get' button.
Up to 4 locos may be run from the controls at any time. Many more can be selected and run in the background.



10



11

Adjust the speed steps by changing the value in the 'Step 1-20' box. Press <- or +> to decrease or increase the speed steps. Hold one of these buttons to activate continuous steps.

Press the 'tick' button to make that loco the one under control. Speed, direction, lights and functions relating to that loco will be visible.

12

Set CV's:

Ensure your loco is on the program track i.e. an isolated piece of track connected to the controller with no other connections.

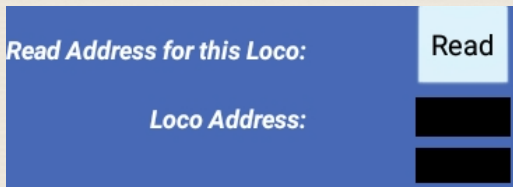
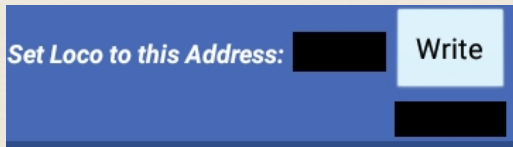
Press the 'Set CV's' button to access the ability to read and write CV's and including the read and write of each loco address in short or long (4 digit) form.

To 'Write' an address, press the 'Select' button and select a loco from the roster list. To write this address to the loco on your program track, press 'Write'

To read the address of the current loco on the program track, press 'Read'

Wait until completed after up to 30 seconds.

I3



I4

On the Read / Write CV's section, pressing 'Clear' will empty all of the boxes of data. Select each CV number 1-255 press 'Read'.



Wait for a few seconds and the value will appear in the 'CV Value' box.

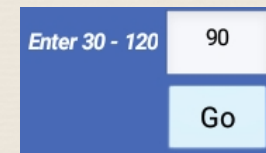
To write a new CV value.

Enter 1-255 in the 'CV Number' box. Enter the new value (1-255) to be written into the 'New Value' box and press 'Write'

Some decoders have varying sensitivity to the read/write operation. To adjust this, change the value in the 'CV sensitivity' section

I5

Normally a value of 60 applies to most decoders, however some older types in particular, require lower values of 30-40. Press 'Go' after each change in this value. If an incorrect reading is suspected, increase this value and if an error is reported, check track to wheels connection and if ok, try reducing this value.



I6

Decoder CV sensitivity:

CV8	Manf	CV Sense
152	Bachmann (older)	30-40
151	Bachmann	40-60
129	Digitrax	40-60
79	Hattons	60-80
65	Gaugemaster	40-60
48	Hornby	40-60
134	LaisDcc	40-60
99	Lenz	40-60
11	NCE	40-60
153	TCS	40-60

I7

Basic CV's:

CV1 = Primary Address : CV2 = Vstart.

CV3 = Acceleration : CV4 = Deceleration

CV7 = Manf Version num : CV8 =

Manufacturer ID

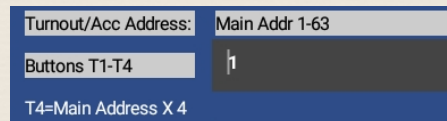
CV29 = Mode - basic values:-

DC	F0	Direction	CV29 value
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	0	0	4
1	0	1	5
1	1	0	6
1	1	1	7

I8

Turnout control:

Press 'T1-16' for the turnout buttons to appear. Any turnout address from 1 to 256 may be individually activated by entering the number in the 'Turnout number' box then press 'Tx' button.



I9

For accessory switching, the default main addresses are given as 1 and 2 which will operate decoder addresses 1 through 8. Main addresses up to 64 may be entered, giving up to 256 turnout switches.

The number of packets sent to DCC system may be changed by entering 1 to 5 in 'Qty of packets sent'

The names on buttons T1 to T16 may be edited here also. Press 'Return' to main layout.

Press 'F1-F28' to make the turnout buttons invisible.

I10

Program on the Main (PoM):

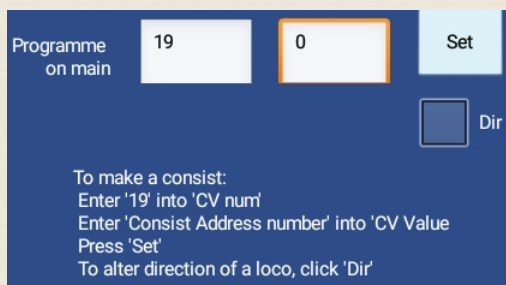
Operations mode is activated from the 'PoM' button. This allows most CV's to be written to the current loco under control on the main line. Exceptions being CV1, 29, 17, and 18 (these control the loco address which can only be changed on the program track)

Otherwise, the range of CV's available on program on the main is 1 to 1024

To access CV's above 256, decoders use an index system. For the CV's 257-512,

CV 31 is set to 16 and CV 32 is set to 1 (indexed page 1). Then select CV 257-512 Please refer to the decoder data sheet for details on these CV's

I11



I12

'Consists' may be setup here, where 2 or more locos respond to a single address. Select 19 in the 'CV num' box and the consist address in the 'CV Value' field. Consist address is limited to 1 - 100.

For example if you want locos 3 and 9 in a consist controlled by address 12, select loco 3 and with 19 in the CV num box and 12 in the CV Value box. Press 'Set'

Repeat for loco 9. If you want to reverse the direction of a loco in the consist, tick the 'Dir' box.

I13

To change CV's while a loco is on the main line, use the PoM feature. Please refer to the specification for your decoder to find all CV's that can be controlled such as acceleration or deceleration. Where fitted, sound decoders can have the volume changed.

I14