

# LIVESTOCK ELECTRONICS

## ELLIS - CALIBRATION MANUAL

### Introduction

This manual gives you the steps to calibrate the outputs of Ellis. The idea is to set the correct values for -5V, 0V and +5V for each output. And calibrate the TRANS input.

### !!! Important notes !!!

1. Only calibrate when you are able to read voltages up to 3 decimal numbers with a multimeter. I.e. you need to be able to read a voltage such as 5.002. If you cannot do this please do not calibrate the module, until you are able to.
2. Always set as close as possible or beyond the correct voltage. I.e. for a voltage such as +5V; set at 5.000 or 5.002 (NOT 4.999 or lower as this will cause faulty scaling). Same goes for -5V; set at -5.000 or -5.002 (NOT -4.999 or higher).
3. If you have questions, please contact us via [info@livestockelectronics.com](mailto:info@livestockelectronics.com)

### Calibration steps

1. Let Ellis warm up for 10 minutes.
2. Press and hold both BANK buttons until the screen shows "CCC".
3. Press the left BANK button to calibrate -5V (left BANK button should show red).
4. Insert measurement cable in an output jack, press and hold the corresponding matrix button and adjust its value with the FADE knob. Now move to the next output until you've worked your way around each output. (Correct values for -5V are usually around 110-140 on screen.)
5. Remove your measurement cable and insert a cable from output 1 to TRANS input, wait a second or two.
6. Press right BANK button to calibrate 0V (right BANK button led should show blue).

7. Remove cable from output 1 to TRANS input.
8. Repeat step 3 (Correct values for 0V are usually around 80-110 on screen.)
9. Press SLCT button to calibrate +5V (SLCT button led should show green).
10. Repeat step 3 (Correct values for +5V are usually around 30-70 on screen.)
11. Remove your measurement cable and insert a cable from output 1 to TRANS input, wait a second or two.
12. Press right BANK button and remove cable from output 1 to TRANS input.
13. Press FUNC button twice to save and go back to the main menus.