

# ECoS ESU COMMAND STATION

## Addendum to the Users manual

For ECoS with Coloured Display and Capacitive Touch Screen  
Firmware from 4.2.10.  
January 2025



# Additions to the instruction manual for ECoS 50220 with Capacitive Touch Display

## 1. Important Remarks – Please read first

With the ECoS 50220 you have received the latest hardware version of the successful ESU ECoS Command Station. We warmly congratulate you on this.

This version has been revised internally by ESU to take account of the availability of electronic components.

As a result, some changes have been made, which lead to some deviations in handling compared to the regular operating instructions.

We would like to introduce these few changes to you below. Otherwise, the detailed operating instructions are fully valid.

## 2. No batteries required

Your ECoS 50220 no longer needs rechargeable batteries: Integrated capacitors provide the power needed to bridge the short time between a power failure and the device being switched off.

The battery compartment is still there, but there are no longer any spring contacts. It is therefore not necessary to insert rechargeable batteries. The charging option in the menu has also been removed.

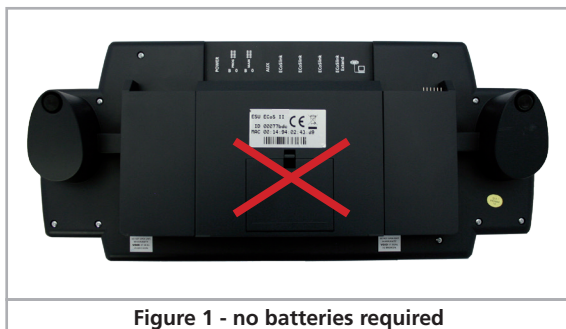


Figure 1 - no batteries required

## 3. Control elements

Your ECoS 50220 is equipped with a touchscreen of the newest generation. This so-called „capacitive touch“ works in the same way as you know it from mobile phones: a light pressure with your finger triggers the function. The use of a stylus is no longer necessary.



The screen with integrated touchscreen is a precision component. Only press the screen lightly. Only use your finger to press. Never use hard or sharp objects, as this could irreparably damage the touchscreen!

All control elements of the ECoS are located on the top of the housing, as shown in Figure 2.

- a) Function buttons on the left. The headlight function as well as F1 to F8 of each locomotive may be activated directly by pressing these buttons. An integral LED in the buttons displays their status.
- b) Left throttle knob with definitive end position and change-of-direction function. Turning the knob clockwise increases the speed while turning anti-clockwise reduces the speed. The position of the knob corresponds with the speed. Turning the throttle knob to the left beyond the „Zero“-position to a clearly audible and mechanical „click“ changes the direction of travel.
- c) Four-way joystick with centre-click-function serves for navigating in the menus, selecting locomotives and to trigger the whistle („Playable Whistle“) of locomotives equipped with suitable decoders.
- d) „Stop“ button: immediately turns off the track power. Also serves for turning off the ECoS at the end of operations.
- e) „Go“ button: turns on the track power of the command station: power is available at the track terminals.
- f) Function buttons on the right. The first 8 functions of each locomotive can be directly activated by pushing one of these buttons.
- g) Right throttle knob with definitive end position and change-of-direction function.
- h) LCD screen with Capacitive Touch Display. Can be operated with your finger. No pen required.
- i) Locomotive selection button. Calls up the locomotive menu for the respective cab.

## 4. Calibration

The capacitive touchscreen of your ECoS 50220 is already calibrated ex works. Calibration means compensating for possible manufacturing tolerances. Manual calibration is not necessary or possible anymore. Any software routines for calibration have therefore been removed.

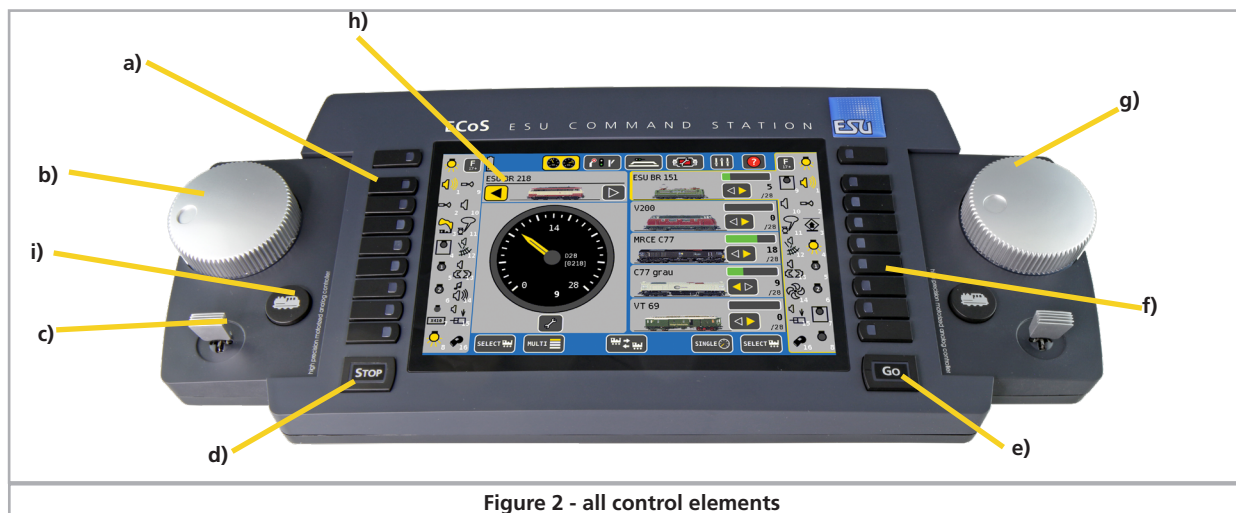


Figure 2 - all control elements