



Model Railway Control



# Z21 multi MAUS Quick Guide

Z21 is an innovation from *Roco* & *Fleischmann*.



### KEYBOARD EXPLANATION

**LC display** for indication

**Left arrow key** for scrolling through entries and settings (backwards)

**Light/OK key** for confirming entries and switching on the train lighting

**Shift key** for activating further multiMAUS functions (key combinations)\*

**Stop key** for activating and deactivating an emergency stop

**Right arrow key** for scrolling through entries and settings (forward)

**Control knob** for setting the direction and speed of travel

**Loco/Turnout key** for switching between locomotive and turnout control

**Menu key** for selecting configuration variables (CV)\*

### EXPLANATION OF DISPLAY SYMBOLS

**Driving symbols**

- Arrows indicate direction of travel of the selected locomotive
- Pause indicates standstill of the locomotive (by controller or selective emergency stop)

**Short-circuit symbol** flashes in case of short circuit or overload

**Stop symbol** flashes in case of emergency stop and short circuit

**Shift symbol** indicates key actuation

**ABC** lights up during text input

**Wrench**  
Menu level: Settings menu

**Turnout symbols**   
• Turnout mode:  
Switch turnout

**Loco symbol**   
• Drive or turnout mode  
• Menu level: Loco menu

**Light symbol** **OK**  
• Switch on loco light

**Function icons (1-10)**  
• Show the activated special loco functions  
• Menu level: subordinate levels

**Prog**  
• Lights up as confirmation during programming  
Menu level: Programming menu

**MENU**  
the multiMAUS is in the menu level

\* The specified functionalities refer only to this quick reference guide.

**Further functionalities of the multiMAUS and more information can be found on our website: [www.z21.eu](http://www.z21.eu)**




## Connection to the Z21:



# 1. LOCO SELECTION

**To control your loco with the multiMAUS or to change settings, you must first select the loco. There are two ways to do this: the library mode or the address mode. The first time you switch on your multiMAUS, it will start in library mode.**

### 1.1 Library Mode




In the library mode of the multiMAUS, your locos are sorted by their names. To select the loco you want to control, simply scroll through the library using the arrow keys. 

When you switch on your system, the multiMAUS display shows the name of the last loco used. When you switch on for the first time, the display will show "LOCO1" or the factory-assigned name of your starter set loco.





### 1.2 Address Mode

Alternatively, you can also control the locos by entering the decoder address. The decoder is located in your digital loco and receives the control signals from your multiMAUS. All locos have preset address 3 at the factory.

- By pressing the key combination  +  you can switch between library mode and address mode and back.
- You can reach the desired decoder address either by using the arrow keys  or by entering the address of the loco directly.

- To do this, first press  + 
- The adjacent display 2 appears. Enter the loco address in the number field.









- For example, to enter the loco with decoder address "3" press  and confirm with 

## 2. CREATING FURTHER LOCOMOTIVES

To create a new loco with the name "BR024" and address 24, proceed as follows in three simple steps:




1. Create the loco with a new name in the multiMAUS loco library.
2. Assign a new, not yet assigned decoder address in the multiMAUS.
3. Set the decoder of the loco to the new decoder address with the multiMAUS.

### 2.1 Creating a new locomotive in the multiMAUS

- Switch to the library mode.
- Scroll with the arrow keys   until "NEW" appears in the display
- Confirm your selection with the key 
- Enter the name with the numeric keypad. On the keys of the multiMAUS there are – like on an old cell phone – all letters from A to Z. Each numeric key is assigned several letters. If you press once, the first letter appears, if you press twice, the second letter appears, if you press three times, the third letter appears. When you press the fourth time, the digit appears:
  - Press 2 times the key  for the letter "B" or, e.g., press 4 times the key  for the digit "2".
  - After entering the text, confirm with 






- Next, enter the new address that the loco is to receive.

- First press , then 
- Confirm your selection with the key 



- Now select the possible speed levels that the decoder understands. For current decoders use 128.

- Use the arrow keys   to select "128" between the values.
- Confirm your selection with the key 



### 2.2 Changing the decoder address with the multiMAUS

The decoder address is stored as the first configuration variable, CV1 for short, in the digital decoder of each loco. With the help of the multiMAUS you can easily change this CV setting. Attention: For this programming **only one loco** may be on the track.

- Press the key combination  +  to access CV1
- Enter the desired loco address by pressing first  and then 
- Confirm your selection with the key 



Now your loco has the decoder address 24 and reacts to all commands you give it with the multiMAUS.

If you have any technical questions / problems, you can contact the service hotline.  
Our experts will be happy to help you with tips and tricks:

- <https://www.fleischmann.de/de/service/hotline/index.html>
- <https://www.roco.cc/de/service/hotline/index.html>

- GRATIS: 00800 57626000 (Germany, Austria, Switzerland)
- INTERNATIONAL: +43 820 200668

**Service Hotline**

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Have a GREAT TIME with your digital system!

