Z21 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

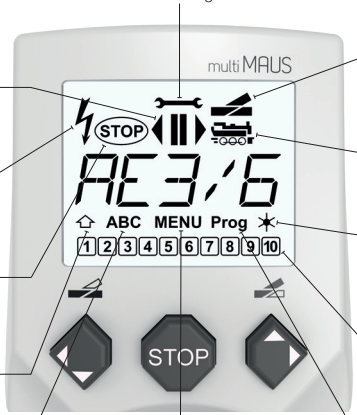
Stop symbol STOP flashes in case of emergency stop and short circuit

Shift symbol indicates key actuation

ABC lights up during text input

Wrench
Menu level: Settings menu

MENU
the multiMAUS is in the menu level



Tournout symbols
- Tournout 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

Thank you very much for choosing one of

* 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

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

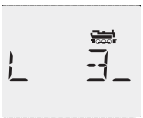
In the library mode of the multiMAUS, your locos are sorted by their names. To select the loco you want to control, simply scroll through the library using the arrow keys.

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 + OK
- The adjacent display 2 appears. Enter the loco address in the number field.
- For example, to enter the loco with decoder address “3” press def3 and confirm with OK



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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

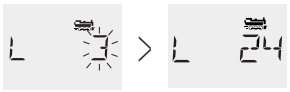
- Switch to the library mode.
- Scroll with the arrow keys until “NEW” appears in the display

- Confirm your selection with the key OK
- 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 2 abc for the letter “B” or, e.g., press 4 times the key 2 abc for the digit “2”.

– After entering the text, confirm with OK

- Next, enter the new address that the loco is to receive.
  – First press 2 abc, then 4 ghi
  – Confirm your selection with the key OK



- 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 OK

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 MENU + 1 to access CV1
- Enter the desired loco address by pressing first 2 abc and then 4 ghi
- Confirm your selection with the key OK

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

Service Hotline

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**

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Have a GREAT TIME with your digital system!

CE UK CA Alter/Age 14+

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