

DAISY II

Hand Controller



Manual for LocoNet & Radio Version

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1. General Information

The DAISY II Hand Controller is an auxiliary control device for all Intelliboxes and also the SystemControl 7, TwinCenter and Piko PowerBox centers. It is an intelligent Hand Controller, which is cable bound (66 300), as well as wireless with radio control (66 350) with the Radio Master LN (66 400) which can be connected to the center by LocoNet.

With DAISY II you can control all locomotives, switch all solenoids and trigger the Routes in the center or other device.

All driving and Switching functions of the digital center are accessible.

1.1 Description

Large, high resolution Display

The high visibility Display has a Size of 38 x 20 mm with a resolution of 128 x 64 Pixel and makes detailed representation of information in clear text or as symbols.

Night design

The Display and the keys have backlighting with which you can also see during the night phase when using an IntelliLight.

Locomotive mode

All locomotives can be controlled using the large rotary throttle control. This intelligent hand controller without end stops automatically takes over the saved speed of any newly selected locomotive it takes control of. Both DC and AC throttle modes are available.

A locomotive symbol, the locomotive name, the locomotive address, the speed and the actual driving direction are shown in the display.

The light and 8 additional special functions can be directly switched with the number keys. In DCC operation up to 24 special functions are available and can be accessed in three groups per locomotive address.

Solenoid mode

Depending on the center in use, DAISY II can control 320 Motorola or 2048 DCC solenoids. Groups of 8 solenoid addresses are accessible directly with the number keys. The display of switch status is achieved with symbols of a turnout position.

Route mode

If routes are set in the center or other device connected to the LocoNet, then these routes can be set from the hand controller's Route mode. Depending on the route device used the DAISY II can set up to 80 routes.

Large Database

Several locomotive data records can be entered into an empty locomotive database. Here locomotive symbols, addresses, Names and symbols for the special functions can be entered. More the 30 locomotive symbols and more than 80 special function symbols are available.

LocoNet

The LocoNet connection of the hand controller makes DAISY II a permanent companion around the layout. It can be separated from the LocoNet at any time and plugged back in at another location. The displayed information will then be restored.

Help function

The context sensitive Help function makes the manual almost redundant. You get help to match your operation automatically. If this help is no longer required it can be simply turned off.

Non-volatile Memory

All settings that have been implemented in the DAISY II are saved in non-volatile memory and will be available even after the device is switched off and back on again.

Hand Controller Lock (Key lock)

The functionality of the hand control can be limited to controlling a locomotive and switching the track power on and off. All other functions as well as the [lok]-key are deactivated in this condition, making it possible to only fully control the current locomotive and also switch the track power of and on.

Updateable System-Software

After power up the DAISY II Logo and software version will be briefly shown in the display. The DAISY II system software can be updated anytime by using its interface to the digital center. These can be found on our internet site www.uhlenbrock.de.

Radio (only 66 350)

The DAISY II radio hand controller operates over a range of approximately 100 metres (open area) in the 868 MHz-Band on a Radio-Master LN (66 400), or a Radio-Master LN + DCC (66 410).

1.2 Quick Guide

Important! Only use this quick guide at the beginning when you are trying out the DAISY II. Please read the entire manual to familiarise yourself with all the options and functions of the device.

Taking the Device into use

Connect the DAISY II (66 300) to the LocoNet socket of the digital center using the included coiled LocoNet cable.

The advantage of the LocoNet is the possible cable length up to 100 m, which gives the DAISY II a very large operating radius.

DAISY II Radio (66 350) with charged batteries can be switched on with the [lok]-key.

Charging DAISY II Radio Hand controller

The Radio hand controller can be charged by connecting it directly to the center's LocoNet. It can also be charged with the included charger. For this you connect the two screw terminals to either DC or AC 12-16V power. Using the enclosed LocoNet cable, connect the hand controller to the charger. In this arrangement no other devices (e.g. via a LocoNet distributor) should be connected to the LocoNet cable.

The hand controller will warm slightly during the charging process.

If it is charged over the LocoNet then it is fully operational on the LocoNet during this time. If it is being charged using the charger then it cannot be used on either the LocoNet or Radio operation.

Preset

The DAISY II throttle configured to AC- throttle mode by default.

Calling up Locomotives

- Press [lok]-key
- Enter the desired locomotive address using the number keys
- Confirm the entry with the [lok]-key or with the [-]-key

Locomotive control

- With a clockwise rotation of throttle knob the speed increases.
- The speed decreases with an anti-clockwise rotation of throttle knob.
- When the locomotive is stationary pressing the knob will change the travel direction.

Light switching

Key [f0] switches the light on or off.

Special function switching

The locomotive's special functions can be controlled with the number keys.

- The [0] key always switches the locomotive lights (F0).
- The keys [1] to [8] switch special function F1 to F8 in its basic state.
- If the [up]-key is pressed then keys [1] to [8] operate special functions F9 to F16
- After pressing the [up]-key they operate special functions F17 to F24.
- If the [up]-key is pressed a further time the functions F1 - F8 are switched again.
- The [down]-key sets the special function range back by one group of eight.

Changing data of individual locomotives

- Press [mode]-key
- Select the "Change loco data" submenu with Number key [4]
- Select the locomotive address whose data is to be changed with Number key [1]
- Then activate the desired settings for this locomotive address

Turnout switching

In solenoid mode the locomotive name, speed and direction of the actual locomotive are displayed. The locomotive can still be controlled by the throttle.

- Press the [mode]-key
- Select the "Solenoid" submenu with Number key [2]
- The number keys now switch solenoid addresses. Key [1] switches the solenoid with the base address shown in the address field. Keys [2] to [8] switch the solenoid with the following addresses.
- With every operation of number keys [1] to [8] the solenoid is switched in the opposite direction.
- The state is shown in the display by the associated symbol.
- If key [-] is pressed then a new base address can be entered with number keys.
- The [stop/delete]-key deletes the last entered digit.

- The entered base address can be accepted with the [↵]-key.
- The [↑] and [↓] keys change the actual base address by +8 and -8 respectively.

1.3 Overview of Commands

Important! Use this brief description only if you need quick information. Please read the entire manual to familiarise yourself with all the options and functions of the device.

Switch track power off

- [stop/delete]- key

Switch track power on

- [stop/delete]- key

Selecting a loco by Address

- [lok]- key + Address entry + [lok]- or [↵]-key

Selecting a loco by Name

- [lok]- key + turn the throttle + [lok]- or [↵]-key

Changing Speed

- Turn the throttle

Changing travel direction

- For stationary loco press the throttle knob (AC- Mode)

Emergency stop the actually controlled locomotive

- Press the throttle knob

Switching the Light function

- Key [0] switches the light on or off

Switching Special functions F1 - F8

- Number keys [1] - [8]
- Switch on functions are shown with the associated symbol

Switching Special functions F1 - F24

- [up]- [down]-keys select the function range
- Number keys [1] - [8]
- Switch on functions are shown with the associated symbol

Select Device Mode

- [mode]-key
- Select with keys [1] - [5]

Change Solenoid Mode key assignment

- [↵]-key
- Enter base address
- [↵]-key
- Key [1] switches the base address
- Key [2] to [8] switch the following addresses

Change Route Mode key assignment

- [↵]-key

- Enter base address
- [↵]-key
- Key [1] switches route with base address
- Keys [2] to [8] switch the following routes

Change Basic Settings

- [mode]-key
- Key [5] "Settings"
- Keys- [1] to [5] select setting and enable
- Leave with [mode]-key or [lok]-key directly back to Loco mode

Controller Lock (Key Lock)

The functionality of the hand controller can be limited to controlling a locomotive and switch the track power off and on. All other functions as well as the [lok]-key are deactivated in this mode. Literally it is only possible to control the current locomotive and its functions and the track power can be turned off and back on with the [stop/delete]-key. The display shows the lock symbol when the keyboard is disabled.

- [mode]-Key
- Key-[0]
- Hand controller is locked
- [mode]-Key
- Key- [0]
- Hand controller is free again

Display Software version

- [mode]-Key
- Key- [9]
- the Software version and the Serial number of the hand controller are displayed for approx. 4 seconds

1.4 Technical Data**Connection**

LocoNet socket

Power consumption from LocoNet

Normal operation: 25 mA

Battery charging current (Radio hand control): up to 400 mA

Frequency band Radio hand controller

868 MHz

Batteries Radio hand controller

2 x AAA, 1.2 V, Ni/MH, 800 mAh (special batteries)

Charging time approx. 1 hours

Operating time with 100% usage approx. 4 hours

Dimensions

200 x 60 x 40 mm

2. The Operating Elements

2.1 Overview of the operating Elements



Display

Display with informationen about locomotive address, locomotive symbol, locomotive name, speed and direction, state of the locomotive special functions or for the just selected operating mode, e.g. in solenoid mode shows the turnout status.

Throttle

Continuous rotating encoder for setting the speed, changing direction and emergency stop of the locomotive, locomotive data record selection, selecting character position and selection of characters in locomotive name.

mode

Selection of operating mode. Change selection of locomotive mode, solenoid mode, route mode, change locomotive data – Mode and configuration mode

lok

Enter locomotive selection or back to locomotive mode from every Menu

up / down

In locomotive mode, change the special function blocks

Light - F1 - F8, Light - F9 - F16, Light - F17 - F24

In solenoid mode, changes base address +8 or -8 respectively

In route mode, changes base address +8 or -8 respectively

In the Basic Settings Menu changes various parameters

Number Keys

Number keys 0 - 9, for address entry and switching in the various modes, selection of device modes and submenus

stop / delete

Switches track power off and on, deletes the last entered digit or a locomotive data record

Enter

Confirms an entry

Takes over a locomotive data record in the "Change loco data" Menu

Confirm the entry of an address and exit from locomotive, solenoid, and route modes

2.2 The Display

The DAISY II display offers a representation of yellow on black background with a size of 38 x 20 mm and a resolution of 128 x 64 pixels. It has a clearly organized structure which shows the battery status (Radio version), the connection for the center, LocoNet or Radio (Radio version), the symbol for current device mode, as well as the locomotive or base address in the upper part. In the central area the basic information of the currently controlled locomotive and in the lower area, depending on the mode, the switching functions.

Battery load condition display (only DAISY II Radio)
Shows the battery charge level. When the level of charge is low the symbol will change to a blinking "LOW".



Radio reception (only DAISY II Radio) shows the quality of the radio reception (Signal strength). If "?-ERR" appears during operation in place of the address the radio reception is interrupted.

This three section display provides a precise overview of the current state of the locomotive.

2.3 The Throttle

In locomotive mode, locomotives can be called up to be controlled by the throttle.

Locomotive control also works in solenoid mode and route mode.



Rotating the throttle serves to change the speed of the locomotive. Pressing on the throttle serves as emergency stop of the actual locomotive and, when in AC – throttle mode (Factory setting), to change the direction.

2.4 Using Menus

The DAISY II Menus can essentially be accessed with the [mode]-key.

The [mode]-key switches the device mode over. When it is pressed the main selection menu which shows all device modes appears. These are consecutively numbered 1 - 5 and are called up with the corresponding number keys.

2.5 Entering Numbers

If during the normal operation of the device the entry of number is required, e.g. a locomotive address or a base address, then this is done with the number keys. As soon as a digit key is pressed the input is completed and after that confirmed with the [↵]-key. The digit can be deleted anytime with the [stop/delete]-key.

3. Basic Settings Menu

The Basic Settings of the DAISY II can be changed with a simple Menu and are then saved by the device in non-volatile memory.

The Basic Settings Menu is entered by pressing the [mode]-key and then selected from the main “Settings” menu by press the number key [5].

The Basic Settings menu offers the following items:

- | | |
|----------------|---------------------|
| 1 = Language | 4 = Throttle |
| 2 = Brightness | 5 = Switch off time |
| 3 = Help | 6 = Routes |

To exit the Basic Settings Menu press the [mode]-key again.

3.1 “Language” Menu

The language for the text in the display can be selected from the following languages:

- German
- Dutch
- Swedish
- Italian
- Danish
- English
- Spanish
- French
- Czech
- Catalan

The preset is “German”.

The [1] can be used to change the language. The language is selected with the [up]- and [down]- keys and confirmed with the [↵]-key.

3.2 “Brightness” Menu

The brightness of the display can be configured. There are 15 brightness levels available.

The brightness can be changed with option [2]. The brightness is change with the [up]- and [down]- keys. The brightness shows the actual numeric value. Once the value is set it is confirmed with the [↵]-key.

In operation it is true that: “The lower the brightness of the display the longer the battery charge will last”.

3.3 “Help” Menu

In the “Settings” Menu and “Change loco data” a small help window is faded in for each step.

Option [3] can select this function and switched of or on with [up]- and [down]- keys. To accept the desired setting use the [↵]-key

3.4 “Throttle” Menu

For the DAISY II throttle you can select whether it is to operate in DC or AC mode. It is preset to AC controller in the factory.

Option [4] selects this function and the [up]- and [down]-key are used to select the desired mode. After the selection is reached use the [↵]-key to confirm it.

AC Throttle Mode

The AC Throttle Mode is set up to control locomotives like the AC transformers in 3-rail systems.

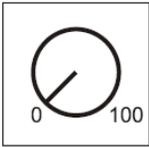


Figure 3.41 Principle of an AC throttle

In this operating mode the speed increases by turning the knob to the right and decreases by turning the knob to the left.

When either the maximum speed or the zero speed is reached further rotation in the same direction of the knob has no effect. The maximum speed or zero speed then remains.

The direction is changed by lightly pressing on the control.

If the reversing switch is activated while the vehicle is running the vehicle will first stop and only then switch the direction over. It depends on the decoder data format if this causes an emergency (Motorola, DCC) or stops using the setup deceleration (Selectrix).

DC Throttle Mode

The DC Throttle Mode controls the locomotives as is common in the 2-rail DC systems.

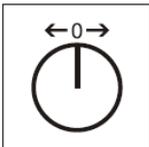


Figure 3.42 Principle of a DC throttle

In DC operating mode a right turn of the control knob, starting from speed step zero, will move the locomotive in a direction. When the control is turned back the speed is reduced until the loco stops. A further turn to the left will cause the locomotive to accelerate in the opposite direction.

If the maximum speed of the loco is reached further turns in that direction has no effect.

In this operating mode a light pressure on the control knob will cause the vehicle to stop. It depends on the decoder data format if this causes an emergency (DCC) or stops using the setup deceleration (Motorola, Selectrix).

3.5 “Switch Off Time” Menu

In order to preserve battery charge in the radio variant of the DAISY II the hand controller can turn itself off automatically after a configurable amount of time.

If the hand control is connected with the LocoNet cable the display will be dimmed after the expiry of the switch off time. If the hand controller is operating in battery/radio mode the display will be turned off when the time expires. To reactivate the controller the [lok]-key must be pressed.

With option [5] the switch off time can be changed. The switch off time is changed using the [up]- and [down]-keys in 8 second intervals. When the value is set it is confirmed with the [↵]-key.

In operation it is true that: “The lower the brightness of the display the longer the battery charge will last”.

3.6 “Route” Menu

The DAISY II can switch up to 80 routes that are saved in other devices.

In this Menu it is possible to specify which center the hand controller is connected to. The feedback address and status with which each route is triggered can also be specified.

Option [1] changes the device so that routes can be set up. Here the [up]- and [down]-keys can be used to select between “IB1” and “other”.

The [↵]-key confirms the selection.

In “IB1” Mode the 48 routes in the IB1 Route mode are activated.

The “other” Mode can be specified for 80 routes and which feedback instructions will execute each route.

With option [2] the number of the route whose data is to change can be entered. The number is entered with the number keys and confirmed with the [↵]-key.

With option [3] the feedback address with which this route is to be executed is entered. The address is entered with the number keys and confirmed with the [↵]-key.

In option [4] the [up]- and [down]-keys select between “vacant” and “occupied” for the feedback command and the [↵]-key confirms it.

With the [0] key the route menu can be exited.

The [lok]- or [mode]-key exists for the Basic Settings Menu.

4. The Loco mode

In the locomotive mode locomotives can be called up and controlled. The locomotive mode can be accessed from any menu by pressing the [lok]-key, or if the mode key is pressed, then in the following menu the “loco” menu is selected with the number key [1].

Control of the speed and direction of the locomotive can also be done in solenoid and route modes.

4.1 Operating Elements

Throttle

Continuous rotating encoder for setting the speed and direction and emergency stop of the locomotive, selecting locomotive data record, symbol position and symbols in the locomotive name.

mode

Selection of operating mode. Selection of locomotive mode, Solenoid mode, Route mode, loco data change and configuration mode

lok

Enter the locomotive selection or back to the locomotive mode from any Menu.

up / down

In locomotive mode changing the special function blocks, Light - F1 - F8, Light - F9 - F16, Light - F17 - F24 In Solenoid mode change the base address by +8 or -8 respectively. In route mode changes the base address +8 or -8 respectively. In the configuration menu changes various parameters.

Number Keys

Number keys 0 - 9, for address entry and for switching in various modes. Selecting the device mode and selecting submenus

stop / delete

Switching track power off and on, deleting the last digit entered or a locomotive data record

Enter

Confirming an entry

Transfer a locomotive data record in the “Change loco data” menu

Input an address and lock in the the locomotive, solenoid and route mode



4.2 Loco addresses and Loco Names

An individual locomotive in a digital control system is selected by an address. This is a sequence of digits which marks the individual decoder which is installed in the locomotive.

In order to simplify the locomotive selection every locomotive address can be given a symbol and an individual locomotive name. Once the allocation is made it permanently remains in the DAISY II locomotive database. With each new locomotive selection it can be selected from the database by its respective name.

How to set up a locomotive data record is outlined in the "The Change Loco data mode" chapter (Chap. 7).

4.2.1 Loco selection

If a vehicle is to be controlled by the DAISY II then it must be called up under its decoder address or under its designated name.

In the locomotive mode the locomotive is selected by pressing the [lok]- or [↵]- key. By turning the throttle a locomotive can be selected from the database (if the record has been entered). If the desired locomotive is found the selection is confirmed by pressing the [lok]- or [↵]- key.

If the desired locomotive is not found in the list the address can be entered using the number keys. Here the last entered digit can be deleted with the [stop/delete]-key and the entry can be confirmed with the [lok]- or [↵]- key.

4.3 Throttle

The throttle serves to change locomotive speed and direction. The speed is displayed by speed step and speed bar. The direction is displayed by a direction arrow. If this arrow is pointing upwards the locomotive is running forwards. If this is pointing down the locomotive is running backwards. The DAISY II rotary throttle automatically registers the saved speed of a locomotive when it is called up.

The throttle can operate in AC or DC throttle mode (see Chapter 3.4).

4.4 Light and Special functions

The number keys on the hand controller can be used to switch the locomotive and function decoder's light and special functions F0 to F24.

Key [0] always switches the locomotive light (F0).

In the base setting keys [1] to [8] switch special functions F1 to F8.

If the [up]-key is pressed keys [1] to [8] will switch special functions F9 to F16.

Pressing the [up]-key once again will change to controlling F17 to F24.

If the [up]-key is pressed another time functions F1 - F8 are switched again.

The [down]-key can change the special function range back again.

The display shows the special function symbol and representation of its state. From the symbols it is then possible to determine if the function is switched on or off. Which symbol is to be used for the individual special function can be specified in the corresponding locomotive data record. If a locomotive which does not have a record in the database is called up by its address, the standard symbol set is used.

4.5 Calling up the last loco

DAISY II remembers the last locomotive called. If for example a simple shunting process is to be carried out between the current and previously used locomotive, the previously used locomotive need not be recalled numerically or from the database. To simplify the locomotive switching press the [lok]-key, immediately followed by the [mode]-key so the previous locomotive can be controlled directly. In this way you can now switch back and forth between two locomotives.

4.6 Loco dispatching

If a vehicle that is being controlled by a DAISY II is to be taken over by another controller that has no option for entering an address (e.g. FRED hand controller from Uhlenbrock, BT-2 hand controller from Digitrax), then the locomotive address must first be placed into the dispatch memory. Following that, hand controllers without address input capability can take over this address. Please check the manual for the particular hand controller to learn the combination of buttons required to read the address from the dispatch memory after the locomotive was "dispatched".

With the key sequence [lok] – [stop/delete] – [lok] a called up locomotive can be dispatched. This locomotive is now in the dispatch memory and can be taken over by any hand controller.

5. The Solenoid mode

With DAISY II you can, depending on the center used, switch 320 Motorola or 2048 DCC solenoid addresses. Groups of 8 solenoid address can be directly controlled with the number keys. Display of the address state is shown with a switch state symbol.

In solenoid mode the locomotive name, the speed and direction of the locomotive currently under control are displayed and the locomotive can be controlled further.

5.1 Selecting Solenoid mode

The solenoid mode is reached by pressing the [mode]-key and in the following menu selecting the "Solenoid" menu option by pressing key [2].

Now eight solenoid addresses can be controlled with keys [1] - [8] in the block of number keys, with which the state of the solenoid is changed each time the particular key is pressed, from red to green or vice-versa.

5.2 Switching a solenoid

Keys [1] - [8] of the number keys switch solenoid addresses. Here key [1] controls the solenoid with the address specified in the base address field. Keys [2] - [8] switch the solenoids with the subsequent addresses. If the base address is 1, the eight keys switch solenoids 1 to 8. If the base address is for example, 47, then the 8 keys switch solenoid addresses 47 to 54.

If the [←]-key is pressed then a new base address can be entered with the number keys. The [stop/delete]-key deletes the last digit entered. The entered base address can be accepted with the [↵]-key.

The [up]- [down]- key will shift the actual base address by +8 or -8 respectively.

Each solenoid is represented by a switch symbol in the lower line of the display. The switch state shows the actual switch status (branch for red or straight for green).

6. The Route mode

With DAISY II up to 80 routes can be switched depending on the route device being used. Groups of 8 routes each are directly controlled by the number keys. An active route is displayed by a turnout symbol with changing state indication.

In route mode the locomotive name, the speed and direction of the actual locomotive is displayed and the locomotive can still be controlled by the throttle.

6.1 Selecting Route Mode

The route mode is activated by pressing the [mode]-key and selecting the "Route" option in the following menu with key [3].

Now eight routes can be executed by keys [1] - [8] with the number keys.

Routes from the Intellibox 1, Intellibox II, IB-Control II, IB-Switch or the route buffer in a Track-Control can be activated. (Other devices can be used also if the routes are activated by feedback instructions.)

If the route mode is set to "IB1" the 48 routes in the Intellibox 1 can be activated. If the route mode is in the "Other" mode 80 route buffers are available in which the particular feedback instructions are saved (see Chap. 3.6).

6.2 Triggering Routes

Number keys [1] - [8] activate the routes. Key [1] executes the route with the address shown in the base address field. Keys [2] - [8] switch the following routes. If the base address is 1, the the eight keys switch routes 1 to 8. If the base address for example is 12 then the eight keys switch routes 12 to 19.

If the [←]-key is pressed the base address can be changed using the number keys. The [stop/delete]-key deletes the last entered digit. With the [←]-key the base address can then be confirmed.

Using the [up]- [down]-key the actual base address is changed by +8 or -8 respectively.

For how to enter execution commands for routes refer to chapter 3.6 "Route" menu.

7. The “Change loco data” Mode

The “Change loco data” Mode is reached by pressing the [mode]-key in the main menu and in the following menu selecting “Change loco data” option with key [4].

The hand controller next shows a small help window in which the most important keys are explained.

By entering the next selection key the help window is faded out again.

if no help is wanted then the setting menu can be switched off (see Chap. 3.3).

7.1 Change loco data

Keys [1] - [4] select the item that is to be changed.

Firstly select the locomotive address for which the data is to be changed with key [1]. The address is entered with the number keys and confirmed with the [↵]-key.

With option [2] the locomotive symbol can be changed. The symbol is chosen from the symbol list using the [up] and [down]-keys and the [↵]-key confirms the selection.

With option [3] the locomotive name can be changed.

The cursor position for entering the first symbol is selected by rotating the throttle control.

Then the throttle control is pressed.

Now the first symbol can be selected by rotating the throttle control. To input a number the corresponding digit key can also be used. The [stop/delete]-key produces a blank.

If the throttle is pressed again this symbol is accepted and the cursor shifts to the next position.

If all symbols for the locomotive name have been entered the entire locomotive name is set to the locomotive buffer by pressing the [↵]-key.

With option [4] the locomotive function is selected.

In this submenu the function symbols of every locomotive special function 0 - 24 can be assigned. Further more you specify if the function is to be a switch or a pulse function.

Switch function: With each key stroke the function “switches on” and “switches off”.

Pulse function: if the key is pressed and held the function is “switched on” and when the switch is released the function is “switched off” again.

Next with option [1] you specify if all special functions are preset with the standard symbols or as switch (UNI), or if the special function is to be assigned its own symbol (MULTI).

The [up] or [down]-key can select one of the two options and the [↵]-key is used to confirm the selection.

If “MULTI” is selected you can now use option [2] enter the function number (0 - 24), whose data is to be change. The number is entered with the number keys and confirmed with the the [↵]-key.

With option [3] the function symbol can be changed. The symbol selected from the symbol list with the [up] and [down]-keys and confirmed with the [↵]-key.

With option [4] the switching type of the function key to be changed.

The switching type is selected with the [up] or [down]-key and confirmed the [↵]-key.

Pressing the [0]-key exits the submenu.

If the changed data record is to be accepted and saved the loco data menu is exited by pressing the [-]-key.

With the [stop/delete]-key one of the loco data records in this menu can be deleted.

Using the [lok]- or [mode]-key the menu may be exited without change or accepting the record.

7.2 Special function symbols

The previous chapter outlined how Special function symbols are assigned to special function numbers in the locomotive data record. Here is a small excerpt of the symbols that are available and their intended meaning (not obligatory). Altogether there are more than 80 Special function symbols available.

	Preset: no Symbol
	Light
	Sound
	Bell
	Horn
	Whistle
	Smoke generator
	Power Pickup
	High beam
	Tail Light
	Interior Light

	Driver cabin lighting
	Uncoupler
	Tail Light
	Start/Brake Inertia
	Brake Squeal
	Driver cabin - Rear
	Driver cabin – Front
	Diesel motor
	Doors Opening
	Hook Down
	Hook Up

	Interior Light
	Magnet
	Move right/left
	Move up/down
	Conductor Whistle
	Shunting gear
	Telex coupling
	Turn left
	Turn right
	Mute Sound
	Light front and back

8. DAISY II Hand controller Radio Extension (66 300)

The cable-bound LocoNet version (66 300) of the DAISY II Hand Controller can be extended to the radio control version with the DAISY II Radio module (66 310). In order to operate this Radio Hand controller on an Intellibox a Radio-Master LN (66 400), or a Radio-Master LN + DCC (66 410) is also required.

8.1 Installing the Radio Module (66 310)

Firstly install the batteries as outlined in the Radio Module (66 310) manual, paying attention to the polarity.

The black cover is anchored to the underside with the four clips. By careful lifting at one side the cover can be opened. Please do not use sharp edged tools.

Inside the black cover two circuit boards are located. A larger one which is screwed to the cover and in the lower part a smaller one with a LocoNet socket. This smaller circuit board is connected to the larger one with a small header plug.

By gently pulling on the circuit board it can be removed and replaced by the Radio module. Finally the body can be re-assembled and clips re-engaged.

With charged batteries the Hand controller is ready for radio operation. No additional settings need to be made



Our contact details for you:

When you have questions we are here for you!

Internet: FAQ's can be found on www.uhlenbrock.de

E-Mail: service@uhlenbrock.de

Hotline: +49 (0)2045 8583-27, Wed from 16:00 to 18:00 and
Mon - Tue - Wed - Fri from 14:00 to 16:00

Premium- +49 (0)900 1858327 When it is urgent ...

Hotline: Mon. - Fri. 10:00 – 16:00
costs (98cent/min for fixed network, mobile is substantially more expensive)

Service: In the event of a defect please send the device to us with proof of purchase and a short description of the fault.
Before you call us please have the following handy for your call: Serial Number of your IB-Control II, Version number of the IB-Control II system software System and this manual.

Our catalogue is available for 3.50 Euro from your dealer or direct from us by sending 5.00 Euro in stamps.

All our Products have a two year warrantee.

We reserve the right to change this manual at any time

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