PIKO
SMARTCONTROL
wlan

PIKO G-SmartAnalogController$_{wlan}$ –

the future of analog garden railway control!



INSTRUCTION MANUAL

Dear PIKO fans,

We are very pleased to present the new **PIKO G-SmartAnalogController*wlan*** – an innovative and, above all, future-proof system for analog-powered garden railroads. It is fully tailored to the needs of model railroaders looking for a convenient yet easy-to-use system for analog model railroad control.

The new **PIKO G-SmartAnalogController*wlan*** is ideal for both beginners and experienced garden railroaders. And thanks to the scalability provided by multiple speed controllers, the groundwork has been laid for a future expansion of the model railroad layout.

With the optional wireless **PIKO G-SmartController*wlan***, analog garden railway layouts can now be controlled wirelessly for the first time. This significantly enhances the operating experience, particularly during precise shunting movements in stations and yards. Train operations can be accompanied on foot throughout the entire garden railway layout, allowing full freedom of movement while controlling the trains.

The Smart Controller's throttle features easy-to-understand symbols clearly arranged on the color display. This makes operating the SmartControlwlan easier and more intuitive. What's more, the throttle is designed in such a way that it can be conveniently operated with one hand.

The **PIKO G-SmartAnalogController*wlan*** and the **PIKO G-SmartController*wlan*** are connected to each other via a self-contained WLAN network.
This allows the operator freedom of movement around the layout.

A standout feature is the ability to pair up to three **PIKO G-SmartAnalogController*wlan*** units with a single **PIKO G-SmartController*wlan***, enabling the control of multiple power districts and opening up even more operating possibilities for your layout!

NOTE: The colors and shapes of the images and illustrations in this user manual correspond to the original products only to the greatest extent possible.

PIKO reserves the right to make technical and/or color changes to this product. Errors and omissions are possible and delivery dates are not guaranteed. Dimensions and illustrations are subject to change. Duplication and/or reproduction of this document in any form without written permission of PIKO is prohibited.

35053-90-7001 PIKO Spielwaren GmbH © 2026

PIKO G-SmartAnalogController$_{wlan}$

Instruction Manual

The PIKO G-SmartAnalogController$_{wlan}$ is a powerful electronic analog driver controller for local control of garden railway layouts. It provides an adjustable track voltage from 0 to 22 V DC with a maximum output current of 5 A, as well as a separate 16 V DC fixed-voltage output for lighting and accessories with a maximum output current of 0.8 A.

The **PIKO G-SmartAnalogController$_{wlan}$** provides all the functions required for convenient analog model railway operation.

The precision driver controller knob with a center detent on the **PIKO G-SmartAnalogController$_{wlan}$** provides exceptionally smooth and responsive control of analog garden railway models.

The **PIKO G-SmartAnalogController$_{wlan}$** is WLAN-enabled and compatible with the **PIKO G-SmartController$_{wlan}$** 35051, which allows wireless control of up to three driver controllers.

35054 PIKO G-SmartAnalogController$_{wlan}$ to Go

The PIKO G-SmartAnalogController$_{wlan}$ to Go combines the **PIKO G-SmartAnalogController$_{wlan}$** and a **PIKO G-SmartController$_{wlan}$** in a single package.

This set enables immediate wireless control of an analog layout and is ready for operation as soon as the devices have been paired. Train operation and layout lighting can therefore be controlled flexibly and independently of stationary control equipment.

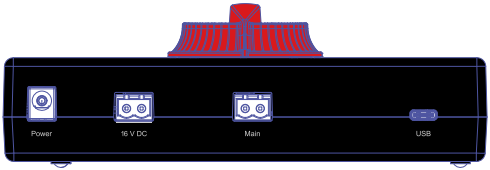
Up to three **PIKO G-SmartAnalogController$_{wlan}$** units can be controlled with a single **PIKO G-SmartController$_{wlan}$**, with device pairing completed in seconds thanks to Fast-Connect.

The shape and weight distribution of the **PIKO G-SmartController$_{wlan}$** are designed so that it fits perfectly in your hand. The buttons and keypad are arranged such that everything can be controlled with one hand; whether for right-handed or left-handed individuals.

The connections

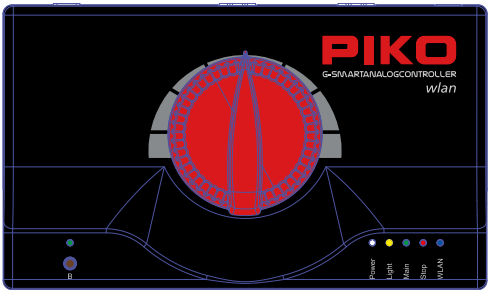
The **PIKO G-SmartAnalogController*wlan*** has connections for a track, for powering accessories (e.g., lights), as well as a USB-C port and a power input jack for connecting the switching power supply.

Connection points on the PIKO G-SmartAnalogController*wlan*



Power: Connection port for the 22 V DC power cord
16V DC: 16 V fixed-voltage output for accessories, max. 0,8 A
Main: Port for the main track - 0–22 V DC, max. 5 A
USB: USB-C port for PSC*wlan* app and firmware updates (cable included)

Controls and display elements of the PIKO G-SmartAnalogController*wlan*



Speed controller: Speed controller with a detent in the center zero position
Button B: Track power off / on and FastConnect

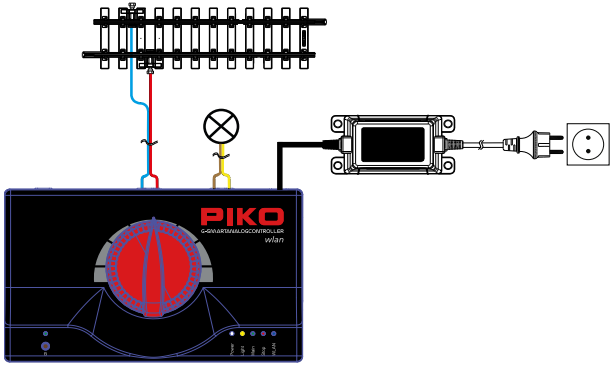
LEDs

Button B (green): Stop button on / off, flashes when FastConnect starts
Power (white): Power on, flashes during a firmware update
Light (yellow): 16 V fixed-voltage on
Main (green): Voltage is present at the track output of the speed controller
Stop (red): Stop / system fault,
with flashing "Light" LED → 16 V output fault
with flashing "Main" LED → track output fault
WLAN: WLAN on / off

Putting the PIKO G-SmartAnalogController$_{wlan}$ into operation

Connect the track output (Main) of the **PIKO G-SmartAnalogController**$_{wlan}$ to the track of your garden railway using the track connection clips. If needed, you can now also connect accessories (e.g., lights) to the 16 V DC connection. The controller is protected against short circuits and overloads. However, if cables with different functions (e.g., main and 16 V DC output) are short-circuited during connection, this protection will not function, and the controller may be damaged.
Connect the power adapter to the power jack on the **PIKO G-SmartAnalogController**$_{wlan}$ and plug the power adapter into a household outlet.

The **PIKO G-SmartAnalogController**$_{wlan}$ starts up and indicates that it is ready for operation by lighting up the white and red LEDs, followed by a double beep.



CAUTION:

The WLAN of the **PIKO G-SmartController**$_{wlan}$ is not enabled by default. WLAN is activated only after running the FastConnect procedure described below.
If you want to use the **PIKO G-SmartController**$_{wlan}$ handheld controller, please make sure that the two devices are not paired when you set it up for the first time. There is no WLAN connection and the WLAN symbol on the controller's display is crossed out.
The first step now must be to activate the WLAN connection (pairing). If both devices are still in their factory-default state, initiate FastConnect by pressing and holding the button on the driver controller for approximately 3 seconds, then release it. The green LED flashes. Now press the button briefly again; the green button LED will turn off, and after a few moments, the "Stop" (red) and "Main" (green) LEDs will start flashing.

Then confirm the information screens on the throttle's display within 30 seconds with "Yes". You can switch between "Yes" and "No" by pressing the Left / Right buttons and confirm your setting with the button "OK".





The devices are now paired when the two LEDs on the speed controller stop flashing and the active WLAN symbol appears on the throttle.

Putting multiple drive controllers into service

If multiple circuits are to be combined, the respective AnalogControllers should output the same voltage to bridge the all-pole insulated rail joints. To do this, the drive controllers must be set to the same position and output the correct polarity.

Using the **PIKO G-SmartController**$_{wlan}$, three AnalogControllers can be controlled wirelessly. This makes it very easy to synchronize the output voltages.
In this operating mode, the driver controller knobs on the AnalogControllers controlled by the handheld controller are inactive.

To pair the devices, press the button on the main speed controller for about 3 seconds until the green LED flashes. Then press the button briefly one more time. The analog speed controller is now in FastConnect mode, and the "Stop" (red) and "Main" (green) LEDs are flashing in sync.

Next, press and hold the button on the second speed controller once until the green LED on the button flashes. Now press and hold the button again until the "Stop" (red) and "Main" (green) LEDs flash alternately. The connection is established when the LEDs on the speed controllers stop flashing.

Operation

PIKO G-SmartAnalogController$_{wlan}$

During normal operation, you can continuously adjust the direction and speed of your trains. Turning the control to the right from the zero position applies a positive voltage to the track, and the locomotive moves forward. Turning it to the left, on the other hand, applies a negative voltage to the track, and the locomotive moves backward. If the direction of travel is incorrect, swap the two track connection cables.
You can use the "STOP" button to quickly brake trains, for example, if there is a risk of collision. The "Stop" indicator LED lights up red. The SmartAnalogController also shuts down automatically in the event of a short circuit at the track output.
The "Stop" LED (red) lights up, and the "Main" LED (green) flashes.
If a short circuit occurs at the 16 V DC output, the controller will shut down, and the "Stop" LED (red) will light up while the "Light" LED (yellow) flashes.

To unlock the controller again, press the button on the speed controller.

Operating via the PIKO G-SmartController$_{wlan}$



If the analog speed control is controlled via the **PIKO G-SmartController$_{wlan}$**, its speed control knob is disabled. All operating steps can be conveniently performed using the backlit digits on the **PIKO G-SmartController$_{wlan}$** keypad. The durable keys have a clearly perceptible pressure point and are nearly wear-free. The brightness of the keyboard and display backlighting can be adjusted to suit individual preferences (see page 9, “Adjusting the Controller Brightness”).
Using the included USB-C cable, the controller can be charged via the USB-C port. Charging is also possible while driving. For this purpose, a suitable power supply (5 V DC, 1 A, not included) or, for example, a power bank with a compatible USB port can be used.

Start

To switch on the **PIKO G-SmartController$_{wlan}$** press the "STOP" button for about 3 seconds, until the display lights up. If the speed controller and SmartController are connected, you can now select from the main menu whether to start driving immediately (Menu 1) or to configure the system settings first (Menu 6). The other menus, which are grayed out, are used to operate the controller in the **PIKO G-SmartControl$_{wlan}$** digital system and are not active.
The "STOP" button can now be used to switch on the voltage at the track output of the speed controller ("STOP" button and "Stop" LED will switch off).
Using this "STOP" button or the button on the speed controller, the track output can be turned off at any time.

NOTE: During operation, the throttle may display information windows. These windows can be closed with any key, or they will disappear automatically after about 10 seconds. Please observe the information displayed as appropriate.

The main menu

The main menu offers a choice between the driving mode menu and a settings menu for all device settings.

The menus displayed can either be selected with the keypad using their associated number (top left in the menu field) or selected using the navigation buttons (Up / Down / Left / Right) and then confirmed with the "OK" button.



1 [ ]: Driving mode menu
2 [ ]: not active - for digital operation only
3 [ ]: not active - for digital operation only
4 [ ]: not active - for digital operation only
5 [CV]: not active - for digital operation only
6 [ ]: Settings menu (for selecting device settings)

You can return to the main menu from each of these menus by pressing the Back button.

Driving mode menu [ ]

In the Drive Mode menu, you can select which of the drive controllers already connected via WLAN should be actively controlled by the controller. Up to three drive controllers can be run simultaneously. If a drive controller is selected and is currently running on the layout, you can still switch to another one. The previous one will continue to run at the parameters you left it at until you select it again and change them.
If only one speed controller is linked, the selection option is not available, and the display immediately shows the screen for controlling the linked speed controller.



If you want to control a track output of a speed controller using the **PIKO G-SmartController*wlan***, you first take control of that track output using button "1" on the numeric keypad. The "F1" field turns completely red to indicate that the track exit is under control. The circuit can now be activated using the controller's speed control knob. When voltage is present at the track output, the green "Main" LED on the driver controller also lights up. The display shows the track voltage being supplied, in a range from 0 to 126, below the graphical driver controller knob. Pressing the driver controller knob sets this value to 0 and no track voltage is supplied. Pressing it again reverses the polarity at the track output, and by turning the knob clockwise once more, the vehicles in this power circuit will now travel in the opposite direction (AC mode). If the controller's driver controller knob is to operate in the same manner as the knob on the physical driver controller, this can be configured in the settings menu by selecting "DC" (see "Settings" → "Configure Driver Controller Behavior").



The 0 key on the numeric keypad switches the fixed-voltage output for accessories on and off. When this output is enabled, the "F0" field is highlighted in solid red and the yellow "Light" LED on the driver controller illuminates.

The fixed-voltage output can be activated independently of the track control.

The Settings menu [⚙]



To configure settings on the **PIKO G-SmartAnalogController**$_{wlan}$ devices, open the settings menu from the main menu by pressing key "6" on the numeric keypad or by navigating to " ⚙ " and confirming with the "OK" button.



The settings menu provides access to options such as the selected language (1), the controller display brightness (2), general settings (6), and specific driver controller settings (8).

Setting language

Nine languages are currently available, with the character set supporting the specific characters and special features of each language.





To change the language, select the first field by pressing key "1" on the numeric keypad or by navigating to it and confirming with the "OK" button.

Use the Up and Down navigation buttons to scroll through the available languages, then press the "OK" button to select the desired language.

To exit the Language menu, press the Back button. The display will then return to the settings menu.

Adjusting the Controller Brightness



The display brightness and the keypad backlight brightness of the controller can be adjusted independently of each other.

To do so, press key 2 on the numeric keypad in the settings menu, or navigate to the corresponding field and activate the menu by pressing the "OK" button.



The next screen provides adjustment options for the display brightness (left) and the keypad backlight brightness (right). Use the Left and Right navigation buttons to switch between the two settings.

The value of the currently selected field can be adjusted either by turning the driver controller knob or by using the Up and Down navigation buttons.



Changes take effect immediately, allowing the settings to be checked and adjusted in real time.

Once the desired settings have been made, press the Back button to return to the settings menu.

Configuring Driver Controller Behavior

The controller's driver controller supports two different methods for speed control and direction selection. These are referred to as DC mode and AC mode, as their operating characteristics are based on the analog DC controllers formerly used for direct-current operation and the AC transformers commonly used for alternating-current operation.





To access these settings, press key "3" on the numeric keypad in the settings menu, or navigate to the corresponding field and activate the menu by pressing "OK".
The next screen provides the configuration options for DC and AC mode (factory default). Select the desired mode using the navigation buttons, then press "OK" (green field).



The next line, "Double-Click Time", has no effect when operating with an AnalogController.

This screen also includes the option "Last Command Prevails". This setting is intended for operation with multiple controllers. When enabled, several controllers can access the same analog driver controller simultaneously, and the most recently transmitted command is always executed, regardless of which controller sent it.

Once all settings have been configured, navigate to the "Save" field and confirm by pressing the "OK" button.



The Back button takes you back to the settings menu.

Controller sleep mode

If no user input is detected on the controller for a configurable period of time, the controller can first dim its display ("Screen Off") and, when operating on battery power, automatically switch itself off at a later time. These timeout settings can be configured here.



To do this, press key "4" in the settings menu or navigate to this field and activate the menu with the "OK" button.



The following window displays the settings for screen and controller shutdown. Use the Down and Up navigation buttons to select the desired options.

Use the Right and Left navigation buttons to select a time setting in minutes and confirm it with the "OK" button.

If the "--" field is selected, this shutdown function will not be executed.



If the screen dims while the device is in use, you must first press any button on the controller to reactivate it before the next button press is processed.

If these settings are saved, pressing the Back button will take you back to the settings menu.

Select WLAN network

NOTE: If the controller cannot connect to a WLAN network after being turned on (the WLAN symbol is crossed out), it will display a message asking if you want to use the FastConnect option. Select the "Yes" or "No" option.



The desired WLAN settings can be entered into the WLAN settings menu of the controller.
To do this, press key "5" in the settings menu or navigate to this field and activate the menu with the "OK" button.



Initially, the "Search" field is selected. After confirming with the "OK" button, the next window displays an option to choose whether to connect the controller directly to an available Analog-Controller via "FastConnect" (a quick connection) or to select a device from a list of available WLAN devices.



Here, you can choose between "FastConnect" to connect to a powered-on driver controller, or "SSID List" to connect to an available WLAN network.

To select "FastConnect", highlight the field with the "OK" button.



Answer this prompt by selecting "Yes". If "No" is currently selected, use the Left navigation button to move to the "Yes" field and confirm your selection by pressing the "OK" button.



Press and hold the button on the driver controller for approximately 3 seconds, then release it. The green LED in the button will begin flashing. Press the button briefly once more; the green button LED will turn off, and after a few moments the "Stop" LED (red) and "Main" LED (green) will begin flashing.
Then, within 30 seconds, confirm this prompt on the controller by selecting "Yes". Use the Left and Right navigation buttons to switch between "Yes" and "No", and confirm your selection by pressing the "OK" button. The connection has been established when the two LEDs on the driver controller stop flashing and the active WLAN icon appears on the controller.



To select an available WLAN device, navigate to the "SSID List" entry and confirm with the "OK" button. A list of all accessible WLAN devices will then be displayed.

The desired driver controller will also appear in this list. Select it using the Up and Down navigation buttons and confirm your selection by pressing the "OK" button.



The selected WLAN device is now shown on the display. To change the name of this WLAN device, press the Down navigation button. The active selection will move from "Search" to the WLAN icon.
Press the "OK" button to confirm. The name field will then be highlighted, allowing the name to be edited using the telephone-style keypad. Once the desired name has been entered, press the "OK" button to complete the entry.



The line marked with the WLAN/lock icon can be selected to enter the WLAN password. Pressing the "OK" button opens the password entry screen. This screen can be exited without making any changes by pressing the Back button. To assign a password of at least 8 characters, enter the desired password using the telephone-style keypad and confirm it by pressing the "OK" button.

The factory-default password is "abcd1234".



To save the configuration, navigate to the "Save" field and press the "OK" button. The settings are stored, and the display returns to the settings menu, where additional configuration options can be selected.

General Settings (Controller)



In the General settings menu, you can assign a new name to the controller, adjust the controller's WLAN transmission power, define a new PIN to restrict various input and operating functions, and restore the controller to its factory settings.
To access this menu, press key "6" on the numeric keypad in the settings menu, or navigate to the corresponding field and activate it by pressing the "OK" button.



Selecting the first field, "Controller Name", opens the name entry screen.



In this field, the controller name can be changed as desired. To do so, activate the name field for editing by pressing the "OK" button, then enter the new name using the telephone-style keypad.

Once the name has been entered and confirmed with the "OK" button, save it in the controller by selecting the "Save" field. The display will then return to the General settings menu.



The next submenu allows you to adjust the controller's WLAN transmission power.



A value range from 0 (low) to 10 (maximum) is available. Once this menu item has been selected, activate the input field by pressing the "OK" button, enter the desired value between 0 and 10, and confirm your entry with the "OK" button.
The maximum transmission power setting (10) is recommended.
To save the change, select the "Save" field and confirm with the "OK" button. The display will then return to the General settings menu.



For sensitive configuration options or to restrict access to certain controller functions (parental control), a four-digit PIN used throughout the controller can be assigned.

To define a new PIN, select the "Edit PIN" submenu.



Using the numeric keypad, first enter the current PIN (0000), followed by the new PIN, and then confirm the entry by pressing the "OK" button. Any incorrect digits can be deleted using the Left navigation button.

To exit the menu without making any changes, press the Back button to return to the settings menu.



The last submenu allows the controller to be restored to its factory settings. The PIN configured previously is required to perform this action.
The following settings are reset to their factory defaults: WLAN password, controller name, driver controller mode, shutdown timers, brightness settings, PIN, and any locked menus are unlocked.
To restore the controller to its factory settings, navigate to the "Factory Settings" submenu and confirm by pressing "OK".



Enter the four-digit PIN and complete the process by pressing the "OK" button. After the controller restarts, all factory default settings will be restored.

Information menu



The Information menu provides access to various details and status information about the controller.

To open this menu, press key "7" on the numeric keypad in the settings menu, or navigate to the corresponding field and activate it by pressing the "OK" button.



The following submenus are available: "Track Monitor", "Firmware", "Image Database", "Search Online", and "Serial Numbers", as well as a QR code. The "Track Monitor", "Image Database", and "Search Online" menus are inactive when selected and are displayed in gray. These functions are intended for use when the controller is operated in digital mode.
The displayed QR code provides direct access to the information and download section for the **PIKO SmartControl**$_{wlan}$ product family in the PIKO webshop.



Firmware: This entry displays the current firmware version of the controller.



You can check whether a newer firmware version is available for the controller in the PIKO webshop under "Important Links" → "INFO SmartControl WLAN".

The latest firmware can be installed via the USB-C port using the PSCwlan app.



Serial Numbers: This submenu displays the serial number of the **PIKO G-SmartController**$_{wlan}$.
The information shown here may be useful for service and support purposes.



Analog Controller (Driver Controller) Settings Menu



To configure the parameters of an analog driver controller, view information about a driver controller, or access a driver controller's Track Monitor, press key "8" on the numeric keypad in the settings menu, or navigate to the corresponding field and activate it by pressing the "OK" button.



First, select the connected driver controller for which settings are to be modified. Select the desired driver controller using the numeric keypad, or navigate to the corresponding field and confirm your selection by pressing the "OK" button.



The next menu allows you to choose between "Track Monitor", "General Settings", and "Info".



Track Monitor:
This submenu displays the current track voltage, the current track output current, and the current at the 16 V output.

For the current measurements, the first value indicates the present current, while the second value shows the maximum current recorded during the current session. The green bars represent the current instantaneous value, and the red marker indicates the maximum value recorded during the current session.

Press the Back button to exit this menu.



General settings:
The General settings menu allows you to change the name of the driver controller and configure track and WLAN settings.

→ *Name*:
This field can be used to change the name of the driver controller as desired. To edit the name, activate the name field by pressing "OK". Then enter the new name using the telephone-style keypad. Press the Down navigation button to toggle between lowercase and uppercase letters. Once the name has been entered, confirm it by pressing "OK" and save the change by selecting "Save".



→ *Track settings*
To open this menu, select the "Track Settings" entry and confirm by pressing the "OK" button.
This submenu allows you to configure the maximum current supplied to the track in increments of 20 mA up to 5 A (value 250), as well as the maximum current supplied at the 16 V output in increments of 10 mA up to 0.8 A (value 80).
Press the Back button to exit the menu.



→ *WLAN settings:*
The next menu allows you to configure the desired WLAN settings for the analog driver controller.
To open this menu, select the "WLAN settings" entry and confirm by pressing the "OK" button.
All changes are saved by selecting "Save".
Press the Back button to exit the menu.



This screen provides access to the following WLAN settings:
"maximum WLAN Transmission Power"
"AccessPoint-Mode" (the analog driver controller creates and operates its own WLAN network)
"Station-Mode" (the analog driver controller is integrated into an existing WLAN home network)
"Serial" (used to assign identification numbers to individual AnalogControllers)



As with the controller settings, the transmission power can be adjusted here within a range from 0 (low) to 10 (maximum).

After entering the desired value, select the "Save" field to store the setting. The display will then return directly to the WLAN settings menu.



To set up your own WLAN network, "Access Point Mode" must be enabled (factory setting). The necessary settings can be entered in the submenu of the same name, which can be selected by highlighting it and then pressing the "OK" button.



By highlighting the "AccessPoint-Mode" field and then pressing the "OK" button, the corresponding field can be activated (green field) or deactivated.

The next line lets you enter or change the name of this WLAN network by using the keypad method you are already familiar with.



To enter the WLAN password, select the line marked with the WLAN/lock icon. Pressing the "OK" button opens the password entry screen.
This input field can be exited without making any changes by pressing the Back button. To use a password with a minimum length of 8 characters, enter the desired password using the telephone-style keypad and confirm it by pressing the "OK" button. The factory-default password is "abcd1234".



Once all required entries have been made, they are saved by selecting the "Save" symbol and entering the four-digit PIN followed by the "OK" button. The factory-default PIN is "0000".



If you want to integrate the AnalogController into an existing home WLAN network, you must enable "Station Mode."
Select this option in the WLAN settings menu and confirm it with the "OK" button.



In the following window, the required entries can be made using the same procedure as "AccessPoint mode", where the name of the desired WLAN network and its password must be entered here.

Once these settings have been saved by selecting the "Save" icon and the AnalogController has been restarted, it will be connected to the specified WLAN network.
Press the Back button to exit this menu.



"Serial" is used to enter the serial number of the primary driver controller when the connection is established manually. When using FastConnect, this entry is updated automatically.

Press the Back button repeatedly to return to the settings menu.



The "Info" menu displays the ID/serial number and firmware version of the AnalogController. This information may be useful for service and support purposes.

Limiting access to individual controller menus (child safety lock)



To protect individual sections of the controller from unauthorized use, they can be locked so that they can only be activated by entering a four-digit PIN.

To do this, press the "9" key on the numeric keypad in the settings menu, or navigate to this field and press the "OK" button to activate the menu.



In the following display, you can use the navigation buttons to select the areas you want to lock and then press the "OK" button to lock or unlock them.
A small lock icon will now appear in the respective field.
Once all areas to be locked have been selected, exit this window by pressing the Back button, then entering the four-digit PIN, and finally pressing the "OK" button.



In the main menu, the locked areas are now displayed with the small lock symbol.



If a locked area is selected while the system is running, the PIN must be entered to access that area once and confirmed by pressing the "OK" button. This menu is now accessible until you exit it. To access it again, you must re-enter the PIN.

Firmware Update

To ensure you always enjoy the best possible gaming experience, we recommend that you update your devices regularly. The firmware update for the **PIKO SmartAnalogController**$_{wlan}$ can be installed via the USB-C port using the **PIKO SmartControl**$_{wlan}$ **App**. This free application is available from the Microsoft Store under the name "PIKO SmartControl wlan App".

Technical data

a. PIKO G-SmartAnalogController$_{wlan}$ (Analog driver controller 35053)

- Voltage supply: plug-in power supply - input: 100-240 V, 50 Hz, output: DC 22 V / 5 A
- Max. current rating for main track output: 5 A
- Max. current rating for 16 V fixed-voltage output: 800 mA
- WLAN: 2,4 GHz–2,483 GHz band, maximum transmit power: 100 mW
- Dimensions: 161 × 96 × 38 mm - 6.3 × 3.8 × 1.5 in

b. PIKO G-SmartController$_{wlan}$ (handheld throttle 35051)

- High-resolution TFT display with a size of 40 x 30 mm - (1.6 x 1.2 in) TFT display
- WLAN: 2,4 GHz – 2,483 GHz band, maximum transmit power: 100 mW
- Battery: Lithium-ion 3,7 V / 1400 mAh
- Dimensions: 189 x 79 x 37 mm - 7.4 × 3.1 × 1.5 in

EU Declaration of Conformity

PIKO Spielwaren GmbH hereby declares that this product complies with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: https://www.piko.de/konform

FCC Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user`s authority to operate the equipment.

FCC Radiation Exposure Statement 35051 **PIKO G-SmartController**$_{wlan}$ (FCC-ID: 2ATRN-55823)

The equipment has been evaluated to meet general RF exposure requirement. The device can be used in portable condition without restriction.

FCC Radiation Exposure Statement **PIKO G-SmartAnalogController**$_{wlan}$ (FCC-ID: 2ATRN-35053)

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Product safety warnings

- Read and follow the safety instructions and operating instructions carefully before use.
- Always handle your **PIKO G-SmartAnalogController*wlan*** with care! The device contains sensitive electronics, so avoid subjecting it to strong vibrations.
- The device is not a toy and is not suitable for children under 14 years of age! However, children may operate it under the competent supervision of an adult.
- Never insert the connecting cables into a mains socket!
- Regularly inspect the power supply unit for damage to its cables, plug, housing, etc. Do not use the power supply unit if it is damaged!
- For safety reasons, the track voltage is switched off if irregularities in the power supply are detected. You can resume operation, which was previously enabled, by pressing the STOP button.

- Connect only accessories that are intended for use with the device.
- Do not operate the **PIKO G-SmartAnalogController*wlan*** system unless you are absolutely certain that there are no short circuits or wiring errors.
- Protect the device from dust and similar contaminants, and clean it regularly.
- Protect the device from water and moisture.
- The device is suitable for use **only in dry environments**.
- Any modifications to the hardware or software will void the warranty.
- Keep this manual in a safe place for future reference.

FAQs

We would like to direct you to our FAQ page on the Internet. You can find it in the PIKO online shop at "www.piko-shop.de/en/faq". There you will find the latest information on using the **PIKO G-SmartController*wlan*** system, as well as detailed video tutorials. If you need further assistance, you will also find a contact form at the bottom of the webpage.

Technical hotline

For technical questions about PIKO products, please contact our technical hotline at

+49 3675 8972 55

Tuesdays from 4 to 6 p.m. (German time)

Thursdays from 4 to 6 p.m. (German time)

You can also send us a fax at +49 3675 8972 50
or send us an email at hotline@piko.de.

Or write to us at:

PIKO Spielwaren GmbH
Lutherstraße 30
96515 Sonneberg
Germany



PIKO model trains –

for every layout!

35053-90-7001 © 2026, PIKO Spielwaren GmbH

PIKO Spielwaren GmbH
Lutherstr. 30
96515 Sonneberg, GERMANY
www.piko.de · hotline@piko.de