

Märklin 60226

Märklin 60226 Central Station CS 3 Digital Multiprotocol Control Unit User Manual

Model: 60226 | Brand: Märklin

1. INTRODUCTION

The Märklin Central Station CS 3 (Model 60226) is a sophisticated digital multiprotocol control unit designed for comprehensive management of model railway systems. It supports mfx, mfx+, DCC, and Motorola protocols, offering versatile control over locomotives and accessories. Featuring a high-resolution color touch screen and two speed controllers, the CS 3 provides an intuitive interface for operating your entire layout.

This manual provides essential information for setting up, operating, and maintaining your Central Station CS 3, ensuring optimal performance and longevity.

2. WHAT'S IN THE BOX

Upon unpacking, please verify that all components are present and undamaged. The package for the Märklin 60226 Central Station CS 3 should contain:

- 1 x Märklin Central Station CS 3 (Model 60226)

Note: The switching power supply (e.g., 60061, 60101, or L51095) is not included and must be purchased separately.

3. SETUP INSTRUCTIONS

3.1 Power Supply Connection

The Central Station CS 3 requires a compatible switching power supply for operation. It is designed to be used exclusively with Märklin switching power supplies such as the 60061 (for general use), 60101 (for Track 1), or L51095 (for LGB). **Do not use transformers like the 60052.**

1. Connect the appropriate switching power supply to the designated power input on the Central Station CS 3.
2. Ensure the power supply is securely connected before plugging it into a wall outlet.
3. For optimal performance and safety, ensure the cable cross-section is larger than 0.5 mm².

With the 60061 switching power supply, the maximum output is 58 VA, and the maximum current is 3 A. When using the 60101/L51095 switching power supply with a CS 3 plus (60216), a maximum current of 5 A is achievable, recommended for Track

3.2 Track Connection

Connect the Central Station CS 3 to your model railway track system. The load capacity on the connection track is a maximum of 5 A, and on the programming track, it is a maximum of 1.2 A.

3.3 Network and Peripheral Connections

The CS 3 offers various connection options for enhanced functionality:

- **Network Connection:** For multi-device compatibility, connect the CS 3 to a network. Additional CS 3 plus units (60216) can be operated together on one system using an optional cable (60123).
- **USB Hosts:** Two built-in USB hosts allow connection of peripherals such as a mouse, keyboard, or USB stick.
- **USB Charging Socket:** A dedicated USB charging socket is available.
- **Mobile Station Connections:** Direct connections for two Mobile Stations are provided.
- **External Speakers:** A connection for external speakers is available.
- **Märklin Bus System:** Connections for the Märklin bus system allow for further extensions. S88 connections can be realized externally via Link S88 (60883).

4. OPERATING INSTRUCTIONS

4.1 User Interface Overview

The Central Station CS 3 features a high-resolution color touch screen and two rotary knobs with integrated push buttons for speed control and function selection. A central STOP button provides immediate emergency stop functionality for the entire system.



Figure 1: Front view of the Märklin Central Station CS 3, showing the touch screen interface and control knobs.



Figure 2: Angled view of the Märklin Central Station CS 3, providing a clearer perspective of the control panel.

4.2 Locomotive Control

The CS 3 allows for precise control of locomotives supporting mfx, mfx+, DCC, and Motorola protocols. Up to 32 locomotive functions can be switched per locomotive. The two built-in locomotive card readers facilitate quick access to stored locomotive data.

- Use the touch screen to select a locomotive from your roster.
- Adjust speed using the rotary controllers.
- Activate functions (e.g., lights, sound, smoke) via the touch screen interface.
- The integrated central track control panel allows for visual management of your layout.

4.3 Accessory Control

Control up to 320 Motorola or 2048 DCC magnetic items (e.g., turnouts, signals) directly from the CS 3. The touch screen provides a graphical representation of your layout, enabling easy switching of accessories.

4.4 Advanced Features

- **Road Control:** Includes shuttle train control capabilities.
- **Memory Expansion:** An integrated SD card slot allows for memory expansion.
- **Integrated Speaker:** Provides audio feedback and sound effects.
- **Multi-device Compatibility:** Connect multiple CS 3 units or Mobile Stations for expanded control.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Märklin Central Station CS 3, follow these general maintenance guidelines:

- **Cleaning:** Gently wipe the touch screen and housing with a soft, dry, lint-free cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the surface.
- **Storage:** When not in use, store the unit in a dry, dust-free environment away from direct sunlight and extreme temperatures.
- **Handling:** Handle the unit with care to prevent physical damage. Avoid dropping or subjecting it to strong impacts.
- **Software Updates:** Periodically check the Märklin website for software updates to ensure your CS 3 has the latest features and bug fixes.

6. TROUBLESHOOTING

If you encounter issues with your Central Station CS 3, refer to the following common troubleshooting steps:

- **Unit Does Not Power On:**

- Ensure the correct Märklin switching power supply (e.g., 60061) is connected and plugged into a working power outlet.
- Verify all power connections are secure.

- **Locomotives Not Responding:**

- Check track connections for proper contact and power supply.
- Ensure the locomotive's address and protocol (mfx, DCC, Motorola) are correctly configured in the CS 3.
- Verify that the locomotive is placed correctly on the track.

- **Touch Screen Unresponsive:**

- Restart the Central Station CS 3 by disconnecting and reconnecting the power supply.
- Ensure the screen is clean and free of debris.

- **Network Connectivity Issues:**

- Check network cable connections.
- Verify network settings on the CS 3 and your router.

For persistent issues, consult the official Märklin support resources or contact their customer service.

7. SPECIFICATIONS

Feature	Detail
Model Number	60226
Product Dimensions	12.6 x 7.68 x 3.15 inches (320 x 195 x 80 mm)
Item Weight	3.3 pounds
Supported Protocols	mfx, mfx+, DCC, Motorola
Locomotive Functions	Up to 32 switchable functions per locomotive
Accessory Control	Up to 320 Motorola or 2048 DCC magnetic items
Power Supply (<i>not included</i>)	Märklin Switching Power Supply 60061 (or 60101/L51095 for specific applications)
Max Output (with 60061)	58 VA, 3 A
Max Output (with 60101/L51095 & CS 3 plus)	5 A (recommended for Track 1/LGB)
Connection Track Load Capacity	Max. 5 A
Programming Track Load Capacity	Max. 1.2 A
Connectivity	2x USB Host, 1x USB Charging, Network, 2x Mobile Station, External Speakers, Märklin Bus
Memory	SD card slot for expansion
Recommended Age	15 years and up
Release Date	October 1, 2016

8. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the documentation provided with your purchase or visit the official Märklin website. Märklin provides customer support for technical assistance, spare parts, and service inquiries.

Official Märklin Website: www.maerklin.de

Please have your model number (60226) and purchase details ready when contacting support.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question