

ZAMEL EXT10000118

ZAMEL SDM-10 Programmable Acoustic Signal Controller

Model: EXT10000118

1. INTRODUCTION

The ZAMEL SDM-10 is a versatile programmable acoustic signal controller designed for precise management of sound signals in various environments, including schools and industrial facilities. This device allows for the accurate adjustment of teaching hour durations, break times, and the timing of the first hour. It features an alarm control input for remote acoustic signals and a BANK2 control input for managing a second set of programmed hours, such as reduced schedules. Equipped with two output relays, the SDM-10 offers advanced functionalities for automated signal control.

2. PRODUCT OVERVIEW

The SDM-10 unit is characterized by its simple installation, robust construction, and advanced functionalities. It is housed in a compact plastic casing suitable for DIN rail mounting. The front panel features a clear display and intuitive buttons for programming and operation.



Figure 2.1: Front view of the ZAMEL SDM-10 controller. This image displays the device's front panel, including the digital display and the 'OK' and arrow buttons used for navigation and programming.

Key Features:

- **Programmable Timing:** Allows precise setting of acoustic signal durations for various events.
- **Multiple Control Inputs:** Includes an alarm control input and a BANK2 control input for flexible operation.
- **Dual Output Relays:** Provides two independent relay outputs for controlling external devices.
- **User-Friendly Interface:** Equipped with a clear display and intuitive buttons for easy programming.
- **DIN Rail Mounting:** Designed for quick and secure installation in electrical cabinets.

3. SETUP AND INSTALLATION

Before installation, ensure the main power supply is disconnected to prevent electrical shock. The ZAMEL SDM-10 is designed for mounting on a standard DIN rail (35mm). Follow the wiring diagram carefully to ensure correct and safe

operation.

3.1. Mounting

1. Securely attach the SDM-10 unit to a DIN rail in an appropriate electrical enclosure.
2. Ensure adequate ventilation around the device.

3.2. Wiring

Refer to the wiring diagram printed on the side of the device for connection details. All connections should be made by a qualified electrician.

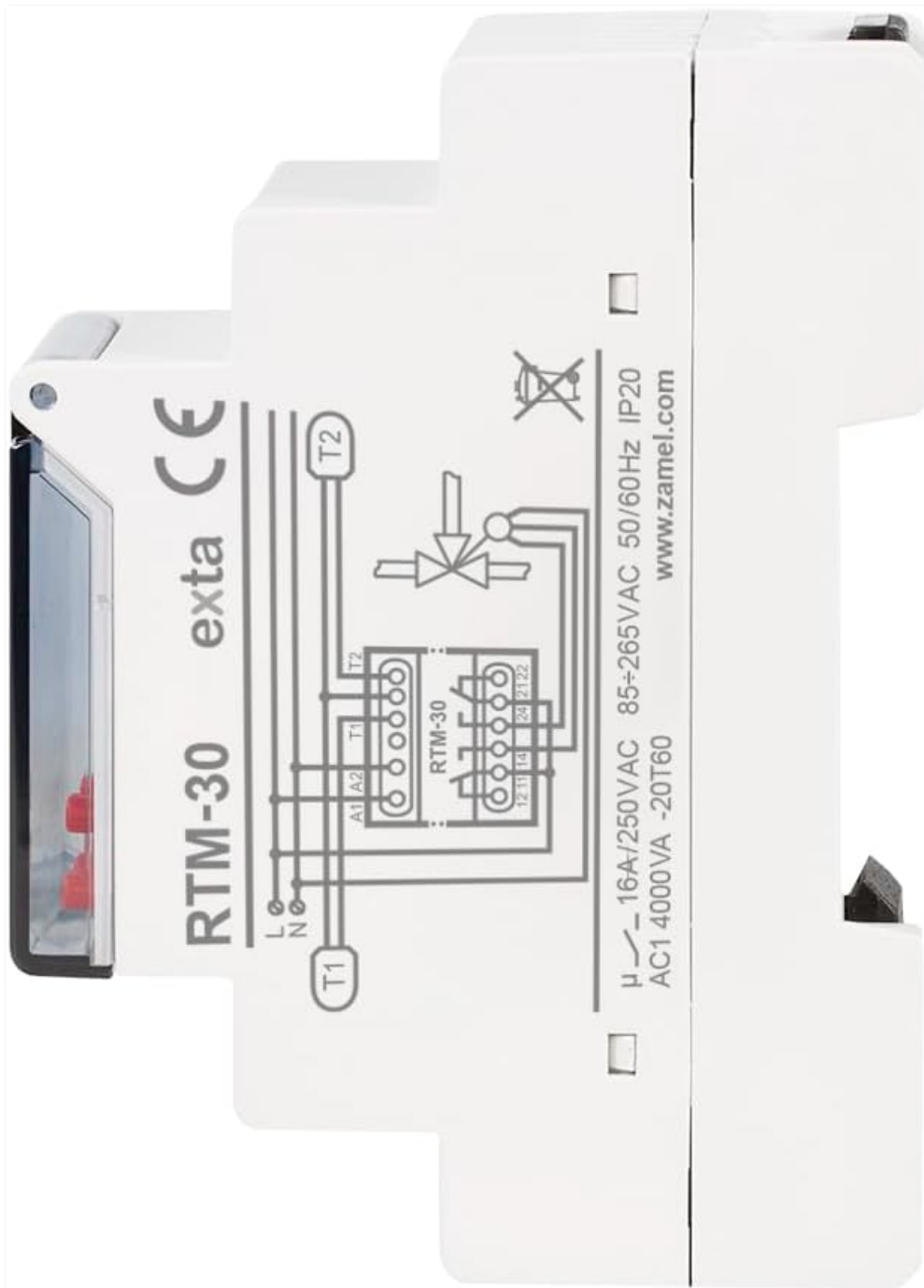


Figure 3.1: Side view of the ZAMEL SDM-10 with the wiring diagram. This diagram illustrates the correct electrical connections for power input (L, N), control inputs (IN1, IN2), and relay outputs (12, 14, 21, 22).

- Connect the main power supply (L and N terminals) according to local electrical codes.
- Connect external control signals to the IN1 and IN2 terminals as required for alarm or BANK2 functions.
- Connect the devices to be controlled (e.g., bells, sirens) to the relay output terminals (12, 14 for Relay 1; 21, 22 for

Relay 2).

3.3. Initial Power-Up

After all connections are made and verified, restore power to the unit. The display should illuminate, indicating the device is ready for programming.

4. OPERATING INSTRUCTIONS

The SDM-10 is programmed using the buttons located on the front panel. The display guides the user through various settings and programming options.

4.1. Basic Navigation

- Use the **arrow buttons** to navigate through menu options and adjust values.
- Press the **OK button** to confirm selections or enter a menu.
- Long-press the **OK button** (if applicable) to exit a menu or save settings.

4.2. Setting Time and Date

Upon initial power-up or after a power loss, you may need to set the current time and date. Follow the on-screen prompts to adjust these parameters.

4.3. Programming Acoustic Signals

The core function of the SDM-10 is to program specific times for acoustic signals. This includes:

- **Teaching Hour Length:** Define the duration of each teaching period.
- **Break Length:** Set the duration of breaks between teaching periods.
- **First Hour Time:** Specify the start time for the first teaching hour.
- **BANK2 Programming:** Configure a secondary set of schedules (e.g., for reduced hours or special events) using the BANK2 control input.

Consult the detailed programming menu in the device's display for step-by-step instructions on setting each parameter.

4.4. Alarm Control Input

The alarm control input (IN1) allows for the activation of an acoustic signal via an external switch or system. When this input is triggered, the device will activate a pre-programmed alarm signal through its output relays.

5. MAINTENANCE

The ZAMEL SDM-10 is designed for long-term, maintenance-free operation. However, periodic checks can ensure optimal performance.

5.1. Cleaning

If cleaning is necessary, gently wipe the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners, solvents, or liquids that could damage the casing or internal components.

5.2. Environmental Conditions

Ensure the device is operated within its specified temperature and humidity ranges. Avoid exposure to direct sunlight, excessive dust, or moisture.

5.3. Service

The SDM-10 contains no user-serviceable parts. Any repairs or internal inspections should only be performed by authorized service personnel.

6. TROUBLESHOOTING

If you encounter issues with your ZAMEL SDM-10, refer to the following common problems and solutions:

- **Device does not power on:**
 - Check the main power supply and ensure it is connected correctly to the L and N terminals.
 - Verify that the circuit breaker or fuse supplying power to the device is not tripped or blown.
- **Acoustic signals do not activate at programmed times:**
 - Confirm that the current time and date are set correctly on the device.
 - Review your programmed schedules to ensure they are active and correctly configured.
 - Check the wiring to the output relays and the connected acoustic devices.
- **Alarm or BANK2 input not responding:**
 - Verify the external switch or control signal connected to IN1 or IN2 is functioning correctly.
 - Ensure the input is correctly wired according to the diagram.
 - Check the device's settings to confirm the alarm or BANK2 function is enabled.

If the problem persists after attempting these solutions, contact qualified technical support.

7. TECHNICAL SPECIFICATIONS

Parameter	Value
Manufacturer	Zamel Sp. Z o.o.
Article Code	EXT10000118
Product Dimensions	9 x 3.5 x 6.6 cm
Model Number	EXT10000118
Material	Plastic material
Number of Items	1
Batteries Required	No
Item Weight	150 g
ASIN	B07RQXRNPT

8. WARRANTY AND SUPPORT

ZAMEL products are manufactured to high-quality standards. For information regarding the warranty period and terms, please refer to the documentation provided with your purchase or visit the official ZAMEL website. For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact your local ZAMEL distributor or

customer service department.

Please retain this manual for future reference.

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

Anonymous

Email

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