Orbis OB171912N

Orbis Digital Timer 2+ (OB171912N) Instruction Manual

Model: OB171912N

1. Introduction

This manual provides detailed instructions for the installation, programming, operation, and maintenance of the Orbis Digital Timer 2+ (Model OB171912N). This device is a DIN rail mounted digital time switch designed for precise control of electrical circuits based on programmed schedules. Please read this manual thoroughly before installation and operation to ensure correct usage and optimal performance.

2. Safety Information

Warning: Electrical installation should only be performed by qualified personnel. Incorrect installation can lead to electric shock, fire, or damage to the device and connected equipment.

- Always disconnect power before installing, servicing, or removing the device.
- Ensure the device is installed in a dry environment, protected from moisture and direct sunlight.
- Verify that the supply voltage matches the device's specifications (230V~ 50-60Hz).
- Do not exceed the maximum switching capacity of 2x16(10)A 250V~.
- The device is rated IP20, meaning it is protected against solid objects larger than 12.5mm but has no protection against liquids.

3. Product Overview

The Orbis Digital Timer 2+ is a compact, DIN rail mountable digital time switch featuring an LCD display and intuitive controls for programming. It is designed for precise scheduling of electrical loads.



Figure 3.1: Front view of the Orbis Digital Timer 2+ showing the LCD display and terminal connections. The display shows '09:45' and 'C1:On', indicating the current time and the status of output C1.

The device features a clear LCD screen for displaying time, program status, and menu options. Terminal connections are located at the top and bottom for power input and load output.

4. Setup and Installation

The Orbis Digital Timer 2+ is designed for mounting on a standard DIN rail (35mm).

4.1. Mounting

1. Ensure power to the installation is completely disconnected.
2. Clip the timer onto the DIN rail in your electrical panel.

4.2. Electrical Connections

Refer to the wiring diagram provided on the device or in the full instruction manual for precise connections. A general overview is as follows:

- **Power Supply:** Connect the live (L) and neutral (N) wires of the 230V~ 50-60Hz supply to the designated input

terminals. These are typically marked 'L' and 'N' or similar.

- **Load Connections:** The timer has two independent switching outputs (C1 and C2). Connect the load's live wire through the timer's output terminals. For example, connect the incoming live to a common terminal, and the switched live to the load from the corresponding output terminal (e.g., C1 or C2).

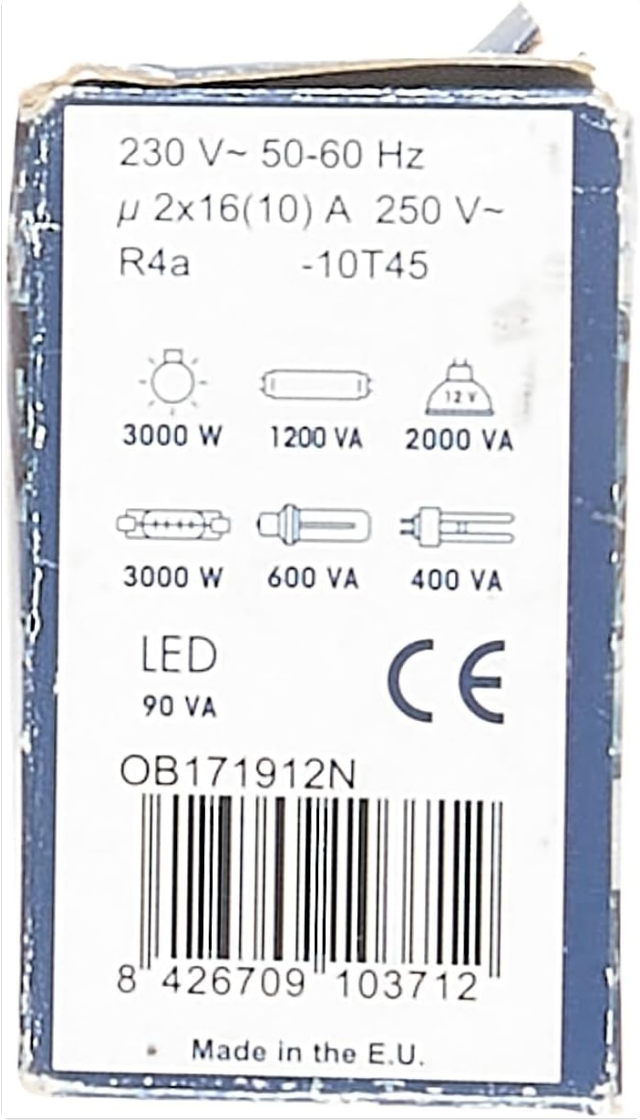


Figure 4.1: Side of the product packaging detailing electrical specifications and load capacities for various lamp types. This information is crucial for safe installation.

Important: Always ensure proper grounding according to local electrical codes.

5. Operating Instructions (Programming)

The Orbis Digital Timer 2+ allows for flexible programming with up to 32 memory slots for ON/OFF switching times and a pulse function.

5.1. Initial Setup

1. Upon first power-up or after a long power outage, the display may be blank. Press any button to activate the display.
2. Set the current time and day. Consult the full instruction manual (link provided in Section 8) for specific button sequences.

5.2. Programming ON/OFF Times

The timer supports up to 32 programmable ON/OFF events. Each event can be set for specific days of the week or daily.

1. Enter programming mode (refer to the full manual for button presses).
2. Select a program number (1-32).
3. Set the desired ON time and the days of the week for this event.
4. Set the desired OFF time and the days of the week for this event.
5. Repeat for all desired programs.

5.3. Pulse Function

The timer includes a pulse function, allowing for a brief ON period from 1 to 59 seconds. This is useful for applications requiring short activation times.

- Access the pulse programming menu.
- Set the start time and duration (1-59 seconds).
- Assign the pulse to specific days or daily operation.

For detailed programming steps, including manual override and special functions, please refer to the comprehensive manual available via the support link.

6. Maintenance

The Orbis Digital Timer 2+ requires minimal maintenance.

- Ensure the device remains free from dust and debris. Clean with a dry, soft cloth. Do not use liquid cleaners.
- Periodically check terminal connections for tightness to prevent loose contacts.
- There are no user-serviceable parts inside the device. Do not attempt to open or repair it.

7. Troubleshooting

If you encounter issues with your Orbis Digital Timer 2+, consider the following common problems and solutions:

- **Display is blank:** Check the power supply to the device. Ensure it is correctly wired and receiving 230V. Press any button to wake the display.
- **Load not switching:**
  - Verify that the program is correctly set and active.
  - Check the manual override setting; ensure it is not set to permanently OFF.
  - Confirm the load itself is functional and not overloaded.
  - Check wiring connections to the load and timer outputs.
- **Incorrect time or date:** Re-enter the correct time and date settings. If the issue persists after power outages, the internal battery (if present) may need servicing by a professional.

For further assistance, consult the detailed manual or contact Orbis technical support.

8. Specifications

Feature	Specification
Model Number	OB171912N
Brand	Orbis
Supply Voltage	230V~ 50-60Hz
Switching Capacity	2 x 16(10)A 250V~
Number of Memories/Settings	32
Pulse Duration	1-59 seconds
Operating Temperature	-10°C to +45°C
Protection Rating	IP20
Mounting	DIN Rail
Dimensions (approx.)	4 x 7.5 x 10 cm
Item Weight	0.16 kg (5.6 ounces)
GTIN (UPC)	08426709103712

9. Warranty and Support

Orbis products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact Orbis directly.
For comprehensive instructions and further support, you can download the official manual:



Figure 9.1: Side of the product packaging showing a QR code and multilingual text for 'INSTRUCTIONS FOR USE'.

Download the full instruction manual here:**Orbis Data Micro 2+ PDF Manual**

For technical assistance or inquiries, please visit the official Orbis website or contact their customer service department.

© 2025 Orbis. All rights reserved.

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