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› [Theben TR 612 top3 Digital Time Switch Instruction Manual](#)

Theben TR 612 top3

Theben TR 612 top3 Digital Time Switch Instruction Manual

Model: TR 612 top3

Brand: Theben

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Theben TR 612 top3 Digital Time Switch. The TR 612 top3 is a 2-channel digital time switch designed for precise control of electrical loads with a weekly programming schedule. It offers flexible programming options, including direct device input, PC/laptop software, and a dedicated smartphone/tablet application.



This image displays the Theben TR 612 top3 digital time switch, highlighting its two channels and the capability for app-based programming. The device features a clear LCD screen and intuitive control buttons.

2. SAFETY INFORMATION

Please read these safety instructions carefully before installing or operating the device. Failure to follow these instructions may result in electric shock, fire, or damage to the product.

- Installation and maintenance should only be performed by a qualified electrician.
- Ensure the power supply is disconnected before any installation or wiring work.
- The device must be installed in accordance with national wiring regulations.
- Do not expose the device to moisture, extreme temperatures, or direct sunlight.
- Do not open the device housing; there are no user-serviceable parts inside.

3. PACKAGE CONTENTS

The standard package for the Theben TR 612 top3 Digital Time Switch includes:

- 1x Theben TR 612 top3 Digital Time Switch unit
- Instruction Manual

Optional accessories, which may be purchased separately, include:

- Bluetooth OBELISK top3 dongle (Item no. 9070130)
- Wall mounting kit 35mm (Item no. 9070064)
- Front panel kit (Item no. 9070001)

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Accessories

Bluetooth OBELISK top 3
Item no. 9070130



Wall mounting kit 35mm
Item no. 9070064



Front panel kit
Item no. 9070001



This image illustrates the available accessories for the TR 612 top3, including the Bluetooth OBELISK top3 dongle (Item no. 9070130) for wireless programming, a wall mounting kit (Item no. 9070064), and a front panel kit (Item no. 9070001).

4. SETUP

4.1 Installation

The Theben TR 612 top3 is designed for DIN rail mounting. Ensure proper electrical connections are made according to the wiring diagram provided with the device and local electrical codes. The device features DuoFix spring terminals for secure connections.

4.2 Initial Power-Up

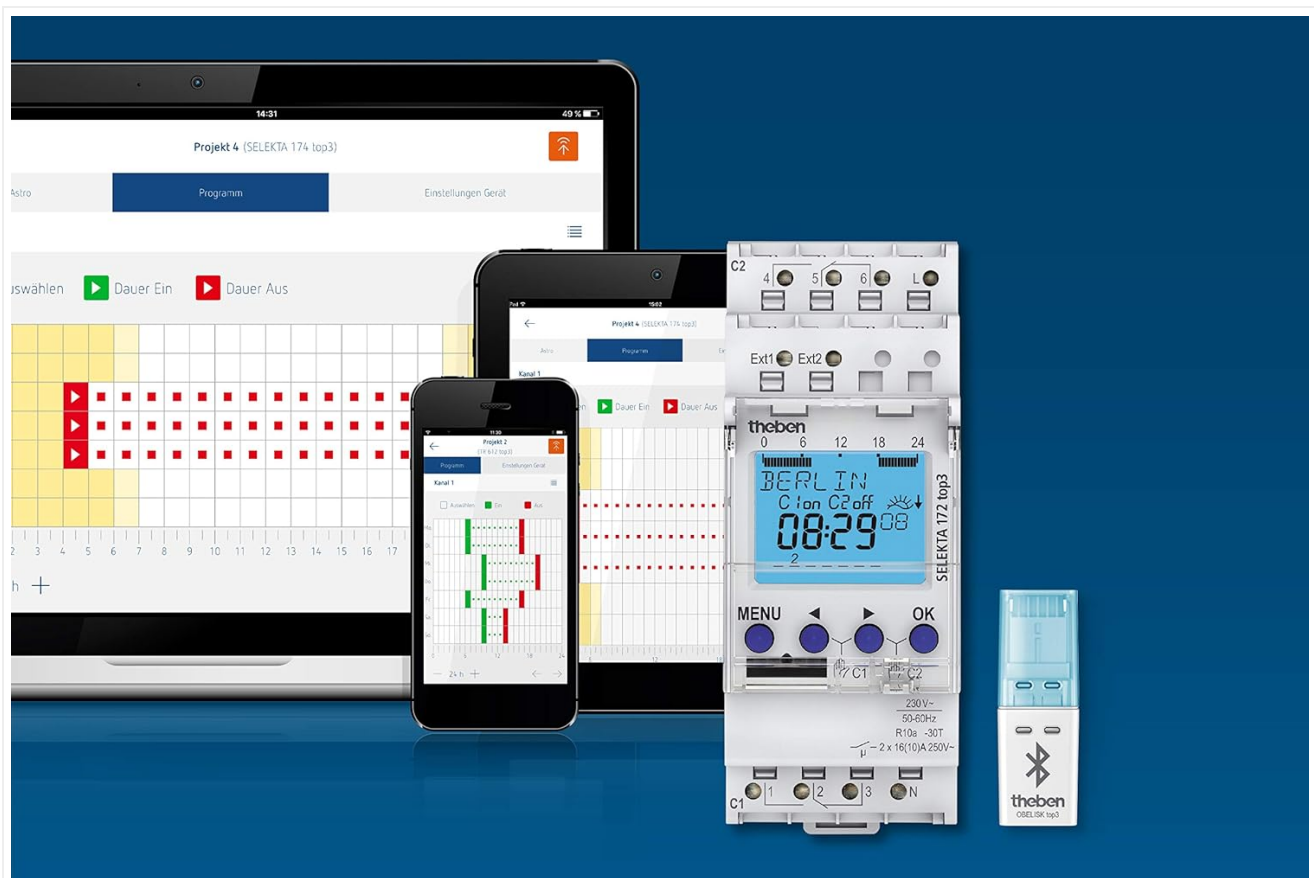
Once installed and powered, the device display will illuminate. Follow the on-screen prompts to set the current time and date. Refer to the detailed wiring diagram and installation instructions included with your product for specific connection details.

5. OPERATING

The TR 612 top3 offers multiple methods for programming its weekly schedule, utilizing its 56 memory locations for flexible switching operations.

5.1 Programming Methods

- **Directly on the Device:** Use the integrated 4 touch buttons (MENU, OK, and arrow keys) to navigate the menu and set ON/OFF times directly on the LCD display.
- **Via PC/Laptop:** Programs can be created and managed using compatible software on a personal computer or laptop.
- **Via App (Smartphone/Tablet):** The dedicated application allows for convenient programming and management of schedules from your smartphone or tablet. This method requires the optional Bluetooth OBELISK top3 low-energy dongle for secure program transfer.



This image illustrates the convenience of programming the TR 612 top3 digital time switch using its dedicated smartphone and tablet application, showing the device connected wirelessly to mobile devices for easy schedule management.

5.2 Program Transfer and Security

Programs can be securely transferred to the device using the Bluetooth OBELISK top3 low-energy dongle. This also allows for easy sharing of programs via email or direct transfer between smartphones, saving time and ensuring consistency across multiple devices.

5.3 Zero-Cross Switching

The TR 612 top3 features zero-cross switching, which extends the lifespan of relays and is particularly beneficial for switching LED lamps. It can safely switch LED loads up to 600 Watts.

6. APPLICATIONS

The Theben TR 612 top3 Digital Time Switch is versatile and suitable for a wide range of applications requiring timed control, including but not limited to:

- Street lighting
- Shop window lighting
- Advertising lighting
- Indoor and outdoor lighting for public buildings
- Parking lot lighting
- School bells
- Ventilation systems
- Pumps and fountains



This image demonstrates various practical applications for the TR 612 top3 digital time switch, such as controlling indoor lighting, managing outdoor illumination for buildings and public spaces, and operating fountains.

7. MAINTENANCE

The Theben TR 612 top3 Digital Time Switch requires minimal maintenance. Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents. There are no user-serviceable parts inside the unit.

8. TROUBLESHOOTING

If you encounter issues with your TR 612 top3, consider the following common troubleshooting steps:

- **No Display/Power:** Check the power supply and ensure all connections are secure. Verify the circuit breaker.
- **Incorrect Switching Times:** Review your programmed schedule. Ensure the current time and date are set correctly.
- **Device Not Responding:** A temporary power cycle (disconnecting and reconnecting power) may resolve minor issues.
- **Programming via App Fails:** Ensure the Bluetooth OBELISK top3 dongle is correctly inserted and paired. Check the app's connection status.

For persistent issues, contact qualified technical support.

9. SPECIFICATIONS

Detailed technical specifications for the Theben TR 612 top3 Digital Time Switch are provided below:

Operating voltage	230 V AC
Frequency	50 Hz
Width	2 modules
Installation type	DIN rail
Type of contact	Two-way changeover contact
Switching output	Phase-independent
Opening width	< 3 mm (μ)
Program	Weekly program
Program functions	ON-OFF
Number of channels	2
Number of memory locations	56
Power reserve	10 years
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	10 A
Incandescent/halogen lamp load	2600 W
Energy saving lamps	1100 W

This image presents the first page of technical specifications for the TR 612 top3, detailing operating voltage, frequency, width, installation type, contact type, switching output, program type, number of channels, memory locations, power reserve, and switching capacities for various loads.

Fluorescent lamp load (conventional) not corrected	2600 VA
Fluorescent lamp load (conventional) series-corrected	2600 VA
Fluorescent lamp load (conventional) parallel-corrected	1300 VA 130 µF
Switching capacity min.	ca. 10 mA
Shortest switching times	1 min
Time accuracy at 25 °C	typical ± 0,25 s/day (quartz)
Time basis	Quartz
Stand-by consumption	~0.4 W
Type of connection	DuoFix spring terminals
Display	LCD
Keyboards	4 touch buttons
Housing and insulation material	High-temperature resistant, selfextinguishing thermoplastic
Type of protection	IP 20
Protection class	II according to EN 60 730-1
Voltage	230 V AC
Ambient temperature	-30°C ... 60°C
Predecessor	6120100, TR 612 top2

This image shows the second page of technical specifications for the TR 612 top3, covering fluorescent lamp loads, minimum switching capacity, shortest switching times, time accuracy, time basis, stand-by consumption, connection type, display, keyboards, housing material, type of protection, protection class, voltage, and ambient temperature.

Specification	Value
Operating Voltage	230 V AC
Frequency	50 Hz
Width	2 modules
Installation Type	DIN rail
Type of Contact	Two-way changeover contact
Switching Output	Phase-independent
Opening Width	< 3 mm (µ)

Program	Weekly program
Program Functions	ON-OFF
Number of Channels	2
Number of Memory Locations	56
Power Reserve	10 years
Switching Capacity at 250 V AC, $\cos \varphi = 1$	16 A
Switching Capacity at 250 V AC, $\cos \varphi = 0.6$	10 A
Incandescent/Halogen Lamp Load	2600 W
Energy Saving Lamps	1100 W
Fluorescent Lamp Load (conventional) not corrected	2600 VA
Fluorescent Lamp Load (conventional) series-corrected	2600 VA
Fluorescent Lamp Load (conventional) parallel-corrected	1300 VA 130 μ F
Switching Capacity Min.	ca. 10 mA
Shortest Switching Times	1 min
Time Accuracy at 25 °C	typical \pm 0.25 s/day (quartz)
Time Basis	Quartz
Stand-by Consumption	\sim 0.4 W
Type of Connection	DuoFix spring terminals
Display	LCD
Keyboards	4 touch buttons
Housing and Insulation Material	High-temperature resistant, self-extinguishing thermoplastic
Type of Protection	IP 20
Protection Class	II according to EN 60 730-1
Voltage	230 V AC
Ambient Temperature	-30°C ... 60°C
Predecessor Model	6120100, TR 612 top2
Color	White
Material	Polycarbonate

Product Dimensions (Depth x Width x Height)	12mm x 16mm x 8mm
Item Weight	120 grams
Number of Settings	25
Global Trade Item Number (GTIN)	04003468610305
Manufacturer Part Number	TR 612 top3
ASIN	B076CNTBFP

10. WARRANTY AND SUPPORT

The Theben TR 612 top3 Digital Time Switch comes with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Theben website for detailed warranty terms and conditions. For technical support, troubleshooting assistance, or inquiries regarding spare parts, please contact Theben customer service through their official website or the contact information provided in your product documentation.