

Theben 1469096

Theben SUL 189 S 24-Hour Timer

Model: 1469096 - Instruction Manual

1. INTRODUCTION

The Theben SUL 189 S is a reliable 24-hour mechanical timer designed for precise control of electrical circuits. It features a 24-hour dial with 15-minute segments, allowing users to program specific ON/OFF times for connected devices. This timer is suitable for various applications requiring automated switching, such as lighting, heating, or ventilation systems.

2. SAFETY INFORMATION

- Installation and maintenance should only be performed by a qualified electrician.
- Ensure the power supply is disconnected before any installation, wiring, or maintenance work.
- Do not exceed the specified electrical ratings (10 A / 250 V AC).
- Protect the device from moisture, dust, and extreme temperatures.
- This device is rated IP20, meaning it is protected against solid objects larger than 12.5mm but has no protection against water. Install in a dry environment.

3. PRODUCT OVERVIEW



Figure 1: Theben SUL 189 S 24-Hour Timer Front View

This image displays the front of the Theben SUL 189 S timer. It features a central analog clock with hour and minute hands. Surrounding

the clock is a 24-hour dial marked from 1 to 24, with numerous small segments (blue and white) that can be set for 15-minute intervals. A small blue switch on the upper left allows selection between 'auto' (automatic timed operation) and 'perm' (permanent ON/OFF). The 'theben' brand logo is visible on the lower right.

Key Components:

- **Analog Clock:** Displays the current time.
- **24-Hour Dial:** Rotates with the clock, marked with hours 1-24.
- **Switching Segments:** Blue and white segments around the dial, each representing 15 minutes. These are pushed in or pulled out to set ON/OFF times.
- **Manual Override Switch (Auto/Perm):** Allows selection between automatic timed operation and permanent ON/OFF.

4. SETUP AND INSTALLATION

Mounting:

The Theben SUL 189 S timer is designed for surface mounting. It features a front frame measuring 72 x 72 mm and requires an installation depth of 54 mm. It is typically mounted on a front panel.

Electrical Connection:

Connect the timer to a 230 V AC power supply. The timer has one channel with a changeover contact, rated for a nominal current of 10 A at 250 V AC. Ensure all wiring complies with local electrical codes and safety standards.

- Identify the input power terminals.
- Identify the output load terminals (normally open, common, normally closed).
- Securely fasten all wire connections.

5. OPERATION

Setting the Current Time:

Manually rotate the 24-hour dial until the current time aligns with the time indicator mark (usually a small arrow or line on the timer's casing).

Programming ON/OFF Times:

The 24-hour dial is divided into 15-minute segments. To program an ON period, push the corresponding segments outwards. To program an OFF period, ensure the segments are pushed inwards. The timer will activate the connected circuit when the dial reaches an 'outward' segment and deactivate it when it reaches an 'inward' segment.

Manual Override Switch:

The blue switch on the upper left of the timer allows for manual control:

- **'auto' position:** The timer operates according to the programmed ON/OFF times.
- **'perm' position:** This allows for permanent ON or OFF operation, overriding the programmed schedule. This is useful for situations like holidays or extended periods where the timed function is not desired.

The timer also supports one-time manual control and circuit departure functionality.

6. MAINTENANCE

The Theben SUL 189 S timer requires minimal maintenance. Keep the device clean and free from dust. Do not use

abrasive cleaners or solvents. There are no user-serviceable parts inside; do not attempt to open or repair the unit yourself. For any issues, consult a qualified technician.

7. TROUBLESHOOTING

- **Timer not switching:**
 - Check if the manual override switch is in the 'auto' position.
 - Verify that the segments for the desired ON/OFF times are correctly set (pushed in/out).
 - Ensure the timer is receiving power.
- **Clock not moving:**
 - Confirm the power supply is connected and active.
 - If the power reserve is depleted (after a power outage), the clock may stop. The timer has a 72-hour power reserve.
- **Inaccurate timing:**
 - The timer has a quartz synchronization for accuracy. If significant deviation occurs, the unit may require professional inspection.

8. SPECIFICATIONS

Brand	Theben
Model Number	1469096
Dimensions (L x W x H)	7.2 x 6.9 x 10.4 cm
Weight	60 grams
Material	Stainless Steel (housing components may vary)
Power Supply Voltage Range	230 V AC
Frequency	45 to 60 Hz
Power Reserve	72 hours
Accuracy	1 second / 60 minutes per day
Switching Program	24-hour program (Yes), Weekly/Annual (No)
Synchronization	Quartz
Contact Type	Changeover contact
Shortest Switching Time (Channel 1)	15 minutes
Dial Graduation	15 minutes
Nominal Current at 250V AC	10 A
Potential-free Switching Contact	Yes
Protection Rating (IP)	IP20

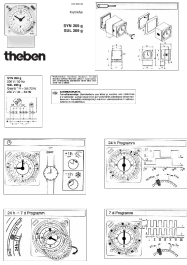
9. WARRANTY AND SUPPORT

Information regarding specific warranty terms for the Theben SUL 189 S is not available in the provided product details. Please refer to your purchase documentation or contact the retailer or manufacturer directly for warranty information.

Spare parts availability information is also not explicitly provided. For technical support or inquiries about parts, please contact Theben customer service or your authorized distributor.

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Related Documents - 1469096

	<p>Theben SYN 269 g / SUL 289 g Programmable Time Switch User Manual</p> <p>Comprehensive user manual for Theben SYN 269 g and SUL 289 g programmable time switches. Covers installation, programming, wiring, and operation for efficient time-based control of electrical devices.</p>
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