theben

TC 649 C   6490430
Control box Cloud

Installation and operating instructions

307456

Link to the manual

http://qr.theben.de/o/urls/433

1. Basic safety information

> ⚠ **WARNING**
>
> **Danger of death through electric shock or fire!**
> ➤ Installation should only be carried out by a qualified electrician!

- The device is designed for installation on DIN top hat rails (in accordance with IEC 60715)
- It complies with product standard EN 60669-2-1

➤ Do not operate the device outside the specified technical data

⚠ The device must be installed in an enclosed switchgear cabinet made of metal or an appropriate fire-resistant material!

⚠ After proper installation, the housing component under the cover must not be accessible!

2. Proper use

Control box TC 649 C is an annual time switch with astronomical function, which can be controlled and updated via Theben Cloud and managed centrally from a computer and a smartphone. The control box is used for lighting and ventilation.
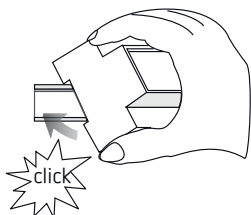
⚠ Do not use on safety devices, e.g. escape route doors, fire safety equipment, etc.

Disposal

➤ For an environmentally appropriate disposal, send the device back to the owner

3. Installation and connection

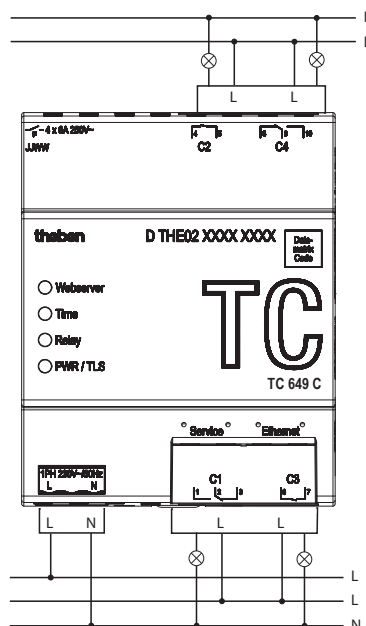## Installing TC 649 C

click

Connecting TC 649 C

Connecting the power supply

➤ Strip cable to 8 mm (max. 9 mm)
➤ Insert the line into the terminal and fasten it
➤ Plug terminal into power supply socket
➤ Connect to power supply
→ During the start of the operating system, all LEDs are flashing. After approx. 150 s the start process is completed and the power LED (PWR/TLS) flashes.
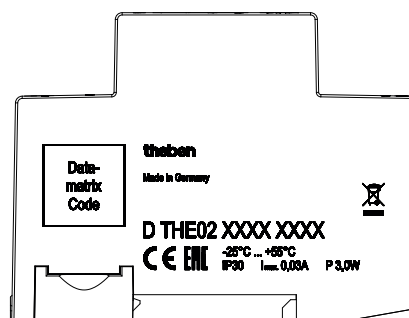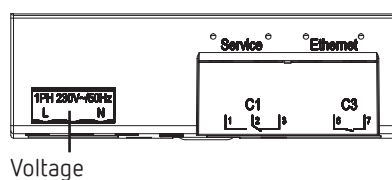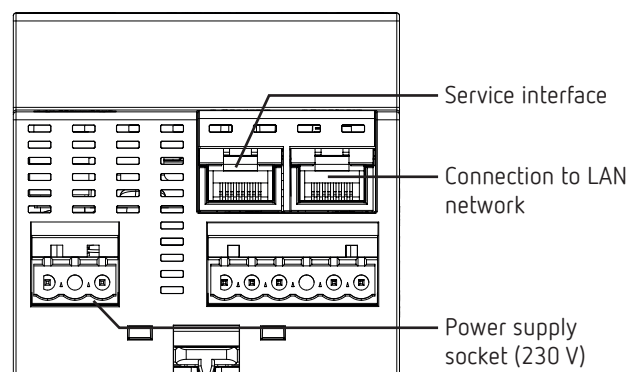
Wiring diagram

ⓘ Switch the load with a contactor.

⚠ If a load is switched directly, secure the device with a circuit breaker of 6 A.

4. Device description

Connections

Service interface

Connection to LAN network

Power supply socket (230 V)

Voltage
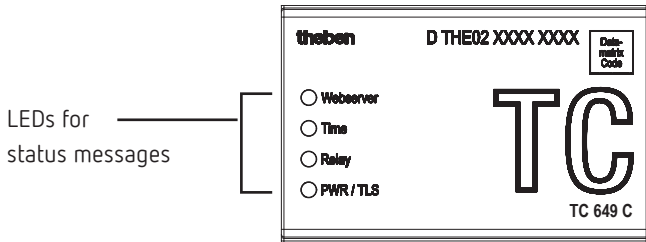

ⓘ The performance specifications can be found on the side and on the device shoulder (see picture). After installation they are not visible any more!

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LEDs

ⓘ Status messages are indicated by four LEDs.

LEDs for
status messages

Label	Description
Web server	Web server started
Time	Connection to NTP server
Relay	at least 1 relay connected
PWR/TLS	Power and TLS

5. Start-up

For the professional electrician/network administrator

ⓘ By default, the network interface is set to DHCP.

ⓘ For configuration with a static IP address, see
https://www.theben.de/tc-649-en/

➜ Connect TC 649 C with the local network at LAN interface „Ethernet".
➜ Connect voltage.
 → During the start of the operating system, all LEDs are flashing. After approx. 150 s the start process is completed and the power LED (PWR/TLS) flashes.

For the operator

To use the TC 649 C device, proceed as follows:

Access via host name (DHCP):
➜ Enter the host name in the address bar of the browser (only with Google Chrome). The host name is the serial number of TC 649 C (printed on the housing)
➜ Example: http://dthe0200001234

D THE02 XXXX XXXX Data-matrix Code

If access via the host name does not work (depending on router), use the manual at https://www.theben.de/tc-649-en/

Access via static IP address:

To set up access via a static IP address, use the manual

ⓘ During initial operation, enter the user name "admin" and the password "admin" to log in.

ⓘ By default, the network interface is set to DHCP. If the TC 649 C device is to be used without DHCP server, please contact your network administrator or use the manual.
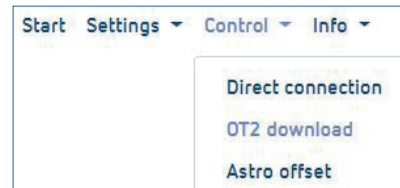
Start-up with Theben Cloud, use the manual.

Operation using the App OBELISK top3
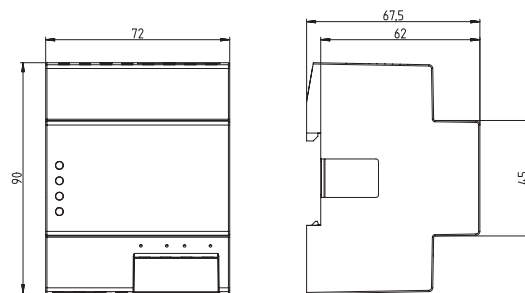You can access the cloud directly via the OBELISK top3 app.

Download – OBELISK software

The OBELISK software is required to carry out an ot.2 download in the „Control" menu. It can be found at
https://www.theben.de/en/pc-set-obelisk-top2-3-9070409

6. Technical data

Operating voltage:	extended operating range 230 V~, −20% +15%
Switching capacity:	6 A/250 V AC, cos φ = 1 Switching of any external conductor is permitted. Switching SELV is only permissible if both switching channels, top or bottom, switch SELV.
Minimum load:	5 V / 1 mA
Switch contact:	µ contact
Frequency:	50 Hz
Power consumption:	3 W
Set operating range:	−10 °C to +45 °C
Threshold for operation:	−25 °C to +55 °C
Threshold for storage and transport:	−25 °C to +70 °C
Humidity:	95%, non-condensing
Protection class:	II subject to designated installation
Protection rating:	IP 30

7. Contact

Service address
Theben AG
Hohenbergstr. 32
72401 Haigerloch
GERMANY
Phone +49 7474 692-0
Fax +49 7474 692-150

Hotline
Phone +49 7474 692-369
hotline@theben.de
Addresses, telephone numbers etc.
www.theben.de

8. Use of open source software

ⓘ This product uses open source software (OSS). A list of the OSS components used and their licence type and version can be found at https://www.theben.de/tc-649-en/

ⓘ If you need to connect groups of devices, please contact the Theben hotline.