

theben
 TC 649 E 6490130
 Control box LAN

Installation and operating instructions

310539 02

Link to the manual



<http://qr.theben.de/o/urls/420>



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 E is an annual time switch with astronomical function, which can be controlled and updated via LAN and managed centrally from a computer. The control box is used for lighting and ventilation.

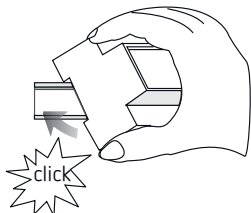
- ⚠ Do not use on safety devices, e.g. escape route doors, fire safety equipment, etc.

Disposal

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

3. Installation and connection

Installing TC 649 E

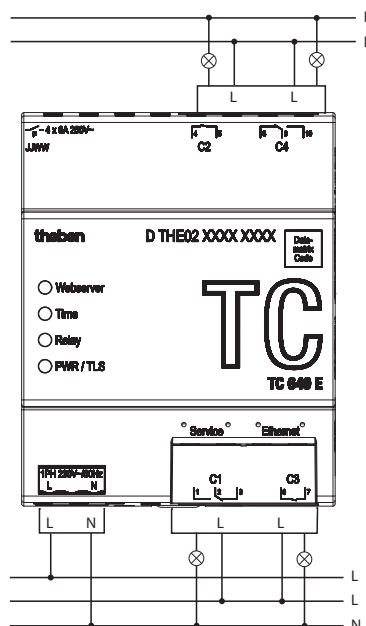


Connecting TC 649 E

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

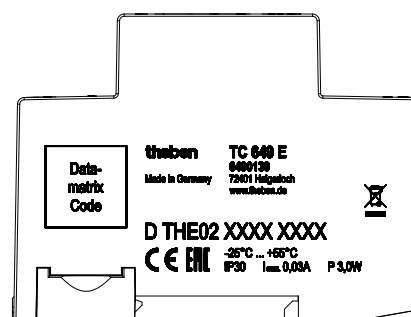
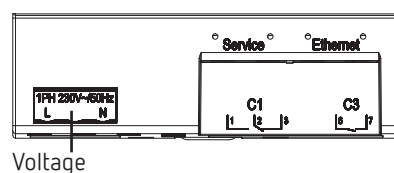
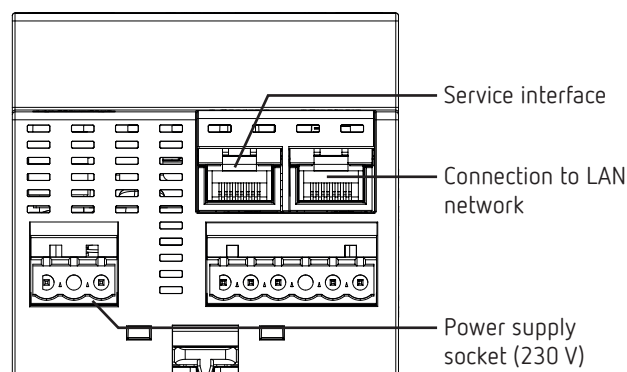


① Switch the load with a contactor.

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

4. Device description

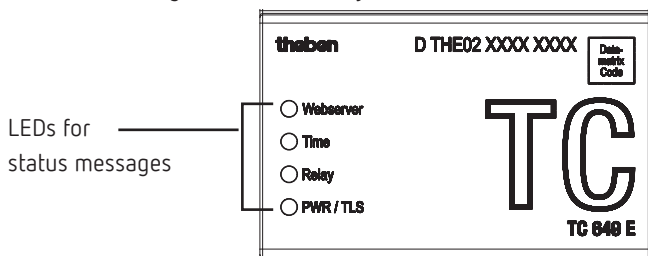
Connections



- ① The performance specifications can be found on the side and on the device shoulder (see picture). After installation they are not visible any more!

LEDs

① Status messages are indicated by four LEDs.



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

Link to the manual



① By default, the network interface is set to DHCP.

① For configuration with a static IP address, see <https://www.theben.de/tc-649-en/>

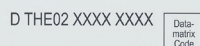
- Connect TC 649 E with the local network at LAN interface „Ethernet“.
- Connect voltage.
 - During the start of the operating system, all LEDs are flashing. After approx. 150 s the start process is completed and the power LED (PWR/TLS) flashes.

For the operator

To use the TC 649 E 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 E (printed on the housing)
- Example: <http://dthe0200001234>



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,

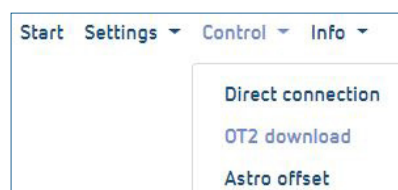
- use the manual at <https://www.theben.de/tc-649-en/>

① During initial operation, enter the user name “admin” and the password “admin” to log in.

① By default, the network interface is set to DHCP. If the TC 649 E device is to be used without DHCP server, please contact your network administrator or use the manual at <https://www.theben.de/tc-649-en/>

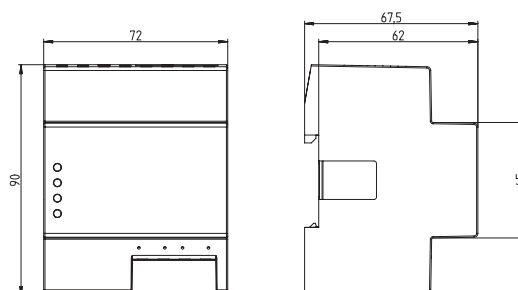
Download – OBELISK software

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, $\cos \varphi = 1$ 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

① 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/>

① If you need to connect groups of devices, please contact the Theben hotline.