

Professional, cable-free electrical installation

Easy installation - flexible and expandable at any time - for any switch range - Made in Germany



SMART BUILDING TECHNOLOGY GERMANY



Who is frogblue?

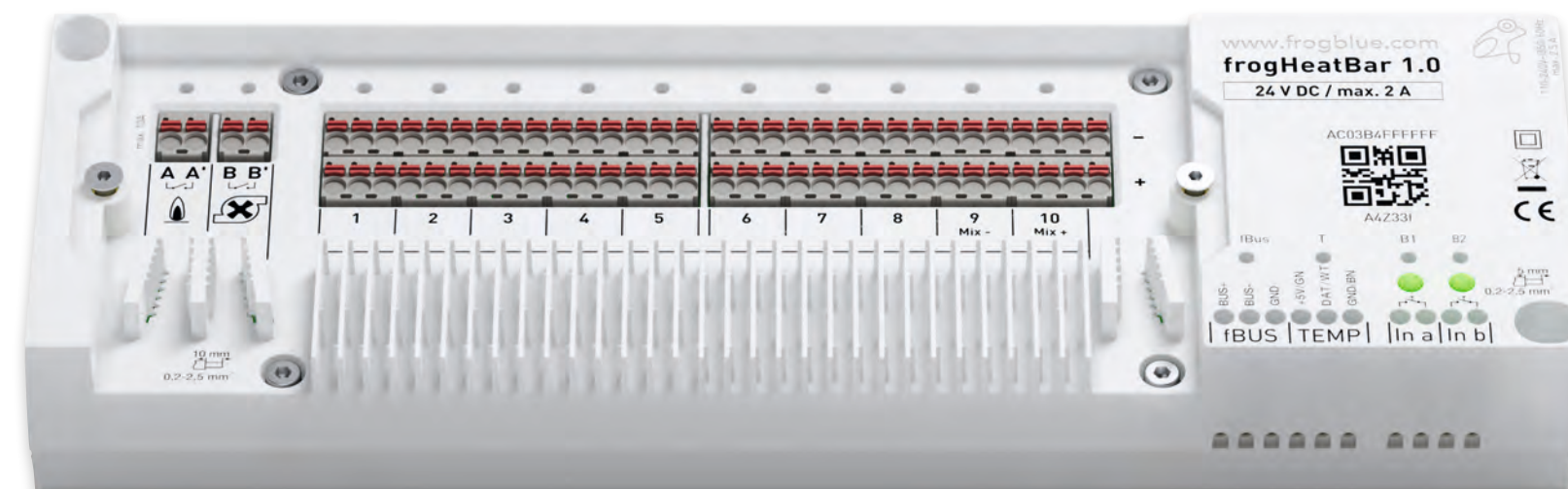
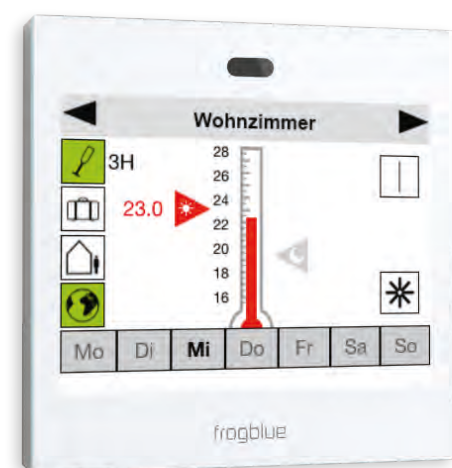
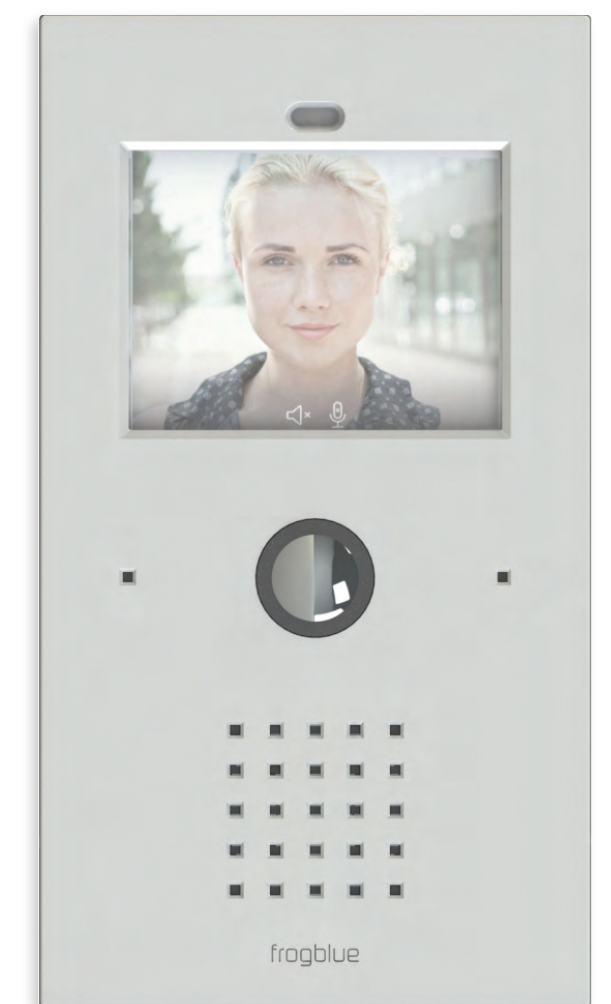
- Pioneer of Bluetooth® electrical installation since 2015
- Family business from Kaiserslautern
- Founder of MOBOTIX AG
- Guarantee proximity, support and product care
- **In-house development and production in Germany**





Professional, cable-free electrical installation

- Control lighting, blinds, heating, access, doors with an app
- Decentralised installation behind normal light switches/sockets
- Requires no control cables – makes virtual connections
- No IT infrastructure required – all data remains in the building
- Licence-free configuration and operating software with free updates

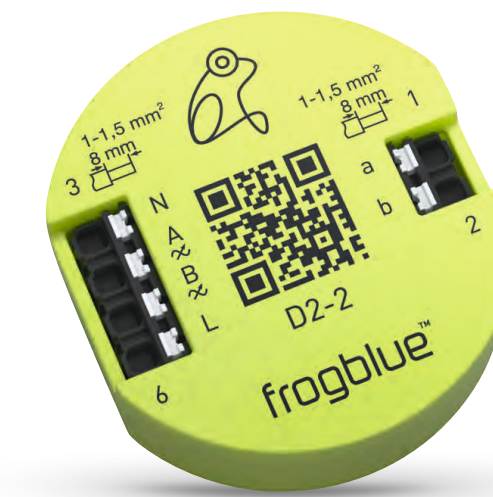




Costs for a typical single-family home

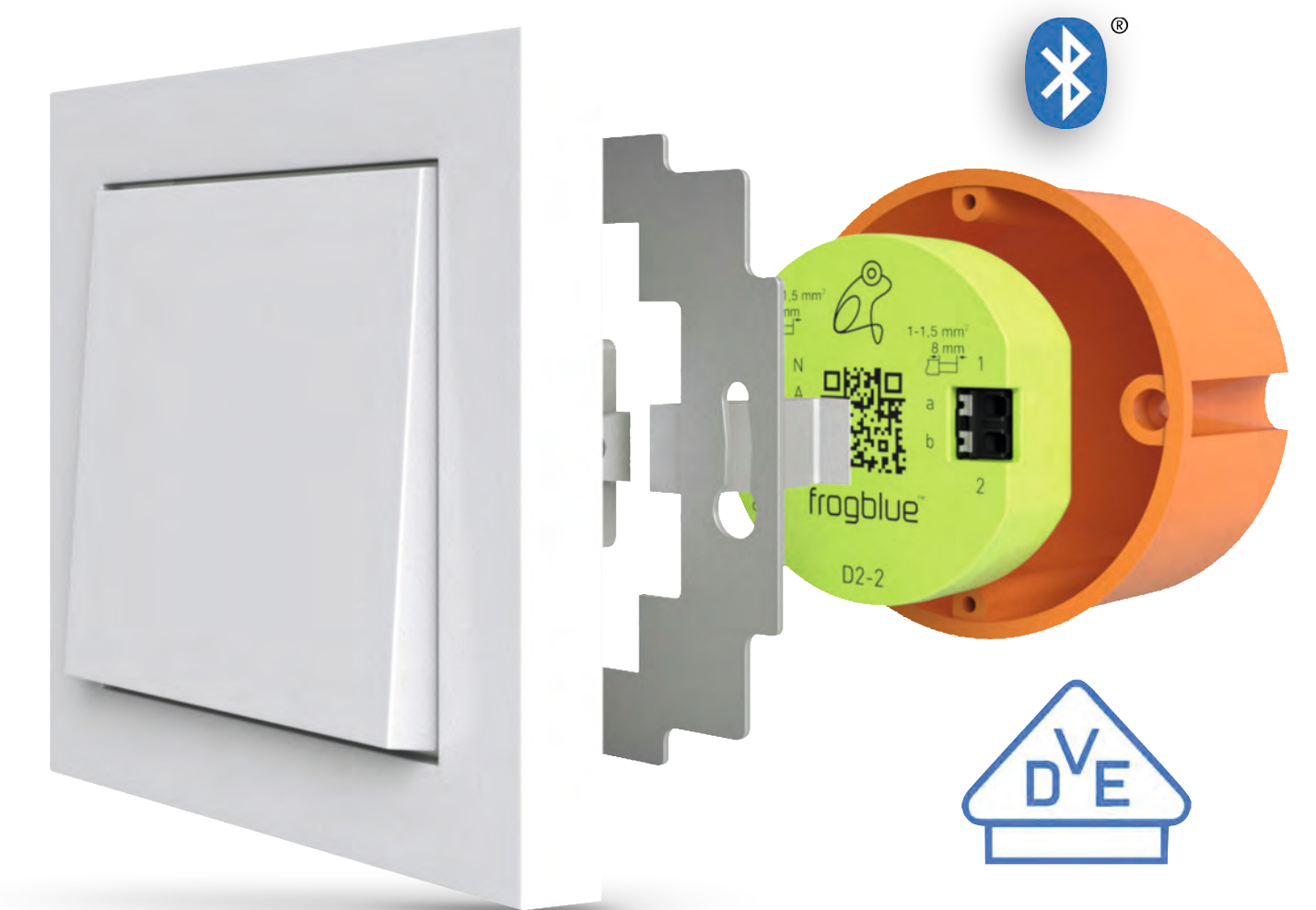
- frogblue products for controlling lighting, heating, blinds and a video door intercom: **approx. €6,000 net**
- Cost savings in cable routing of **approx. 80%** compared to wired central systems
- No control cabinet or space in the fuse box is required
- **Maximum 1 day** for configuring switch functions & room layout
- **Automatic** generation of display and smartphone menus
- Energy consumption of all frogblue components: only **approx. 0.03 kW** per hour, i.e. approx. 30 times less than wired systems





How does frogblue work?

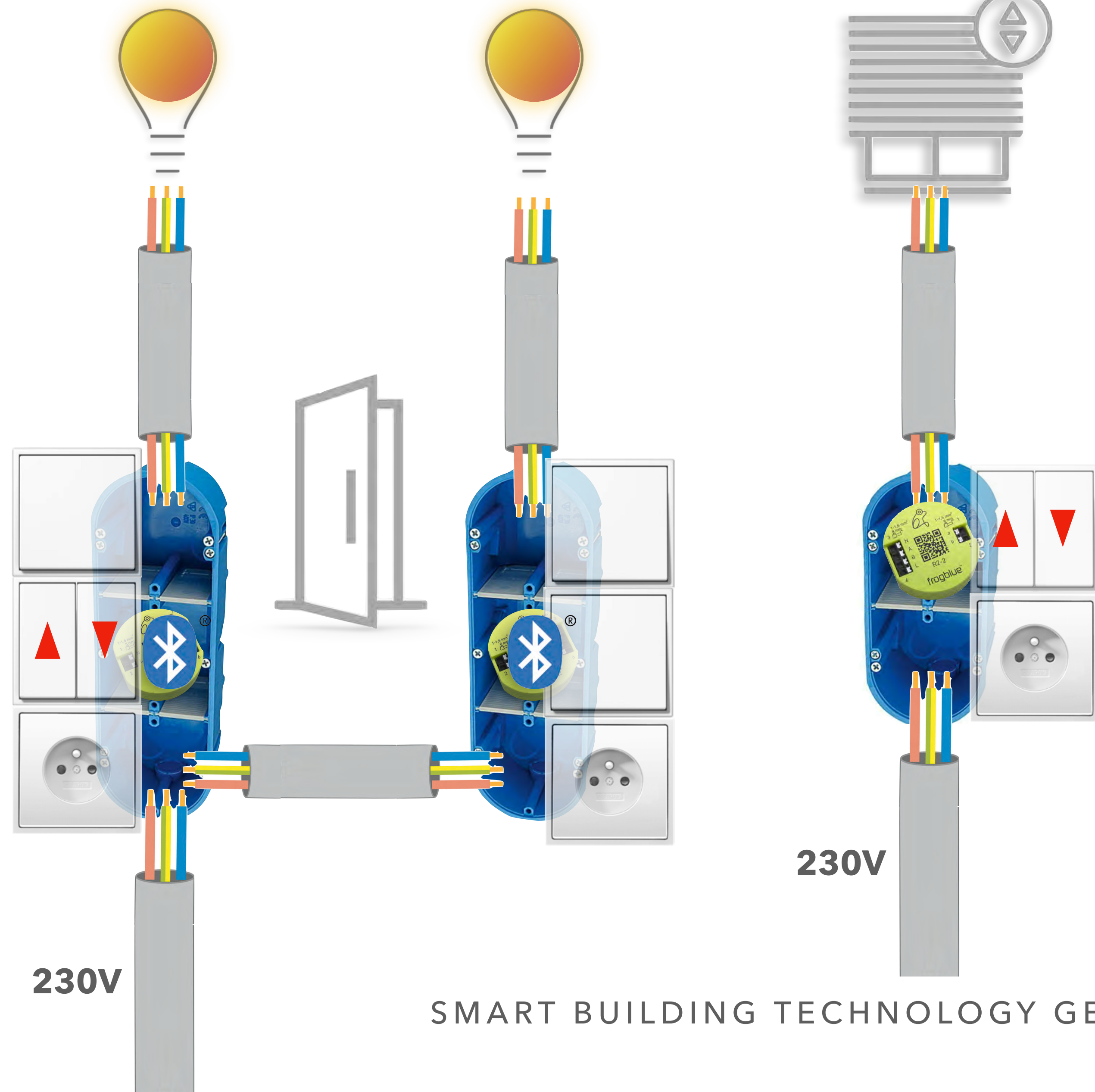
- Our frogs are installed in the flush-mounted socket behind the light switch
- They are only connected to the 230V power supply - no control cables
- Control functions are interchanged via **Bluetooth®** mesh
- Each frog is a relay station and transmits several packets over a range of frequencies
- Bluetooth is always more reliable than a wireless solution
- Fully redundant data transmission across all modules
- **No** programming - we only configure





Easy installation

- **Virtual** cabling via app
- No change-over required
- No control cabling required
- No cable routing
- No control cabinet
- No IT structure
- No computer/no server





Frog modules

Clock module

Suppression module

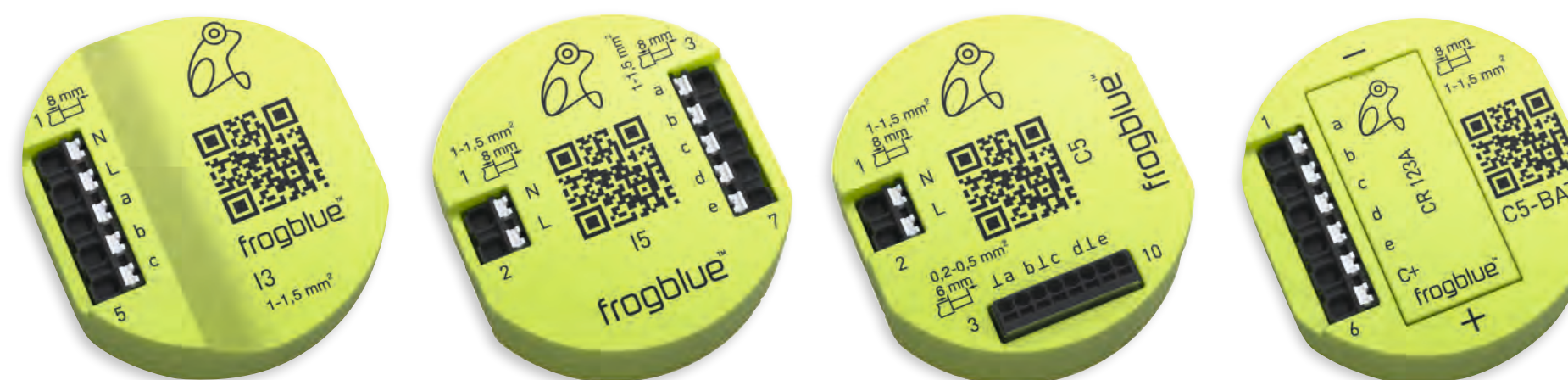
Dali® Bridge



Dimmers



Input modules



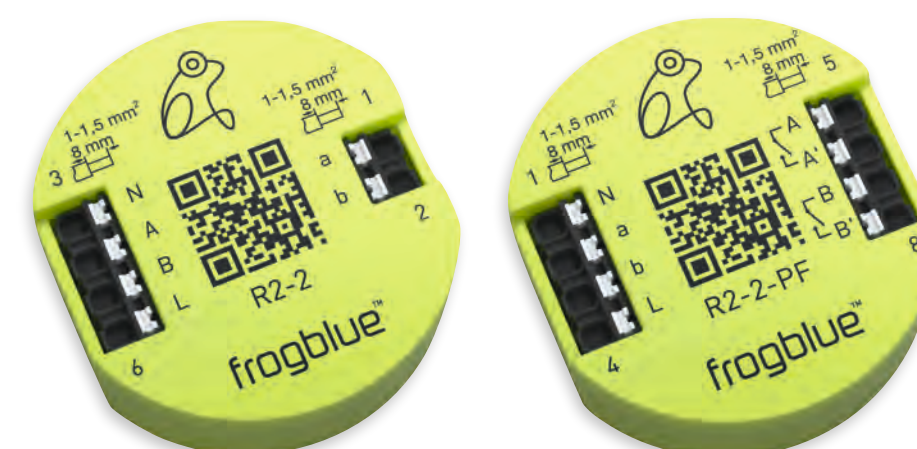
Remote control



Actuators



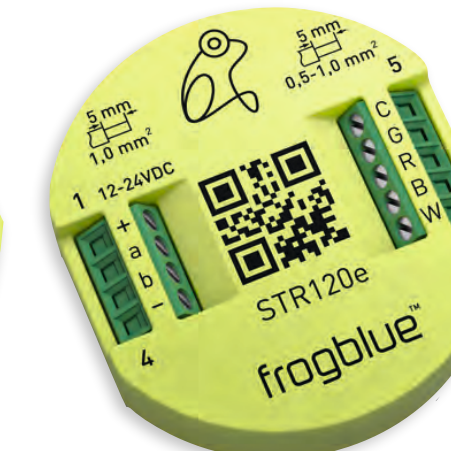
Relay



Door

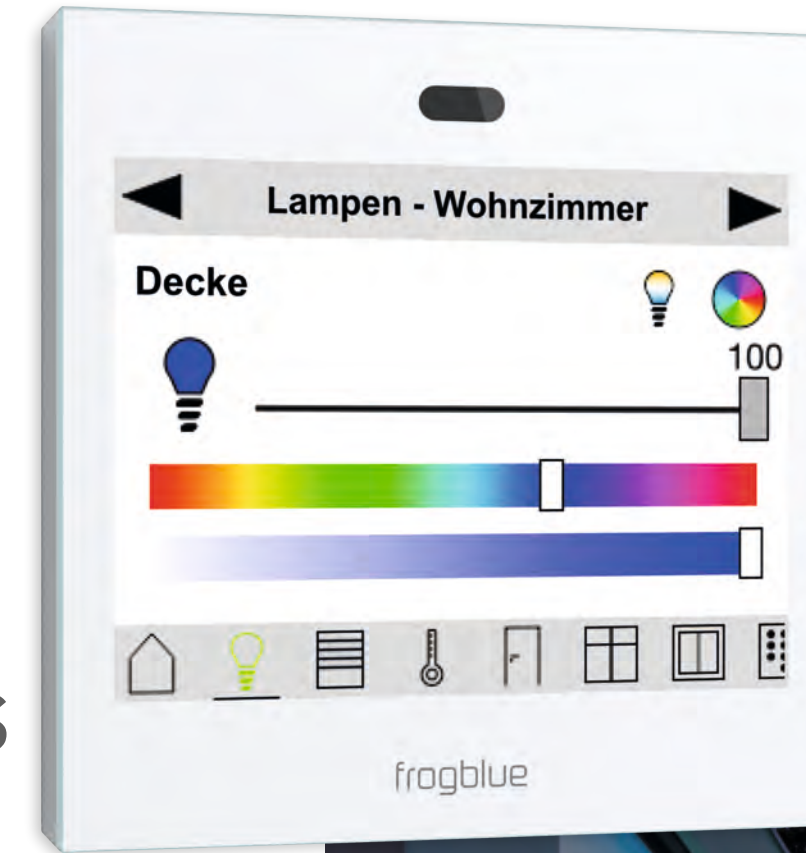


LED



LEDs are our strength

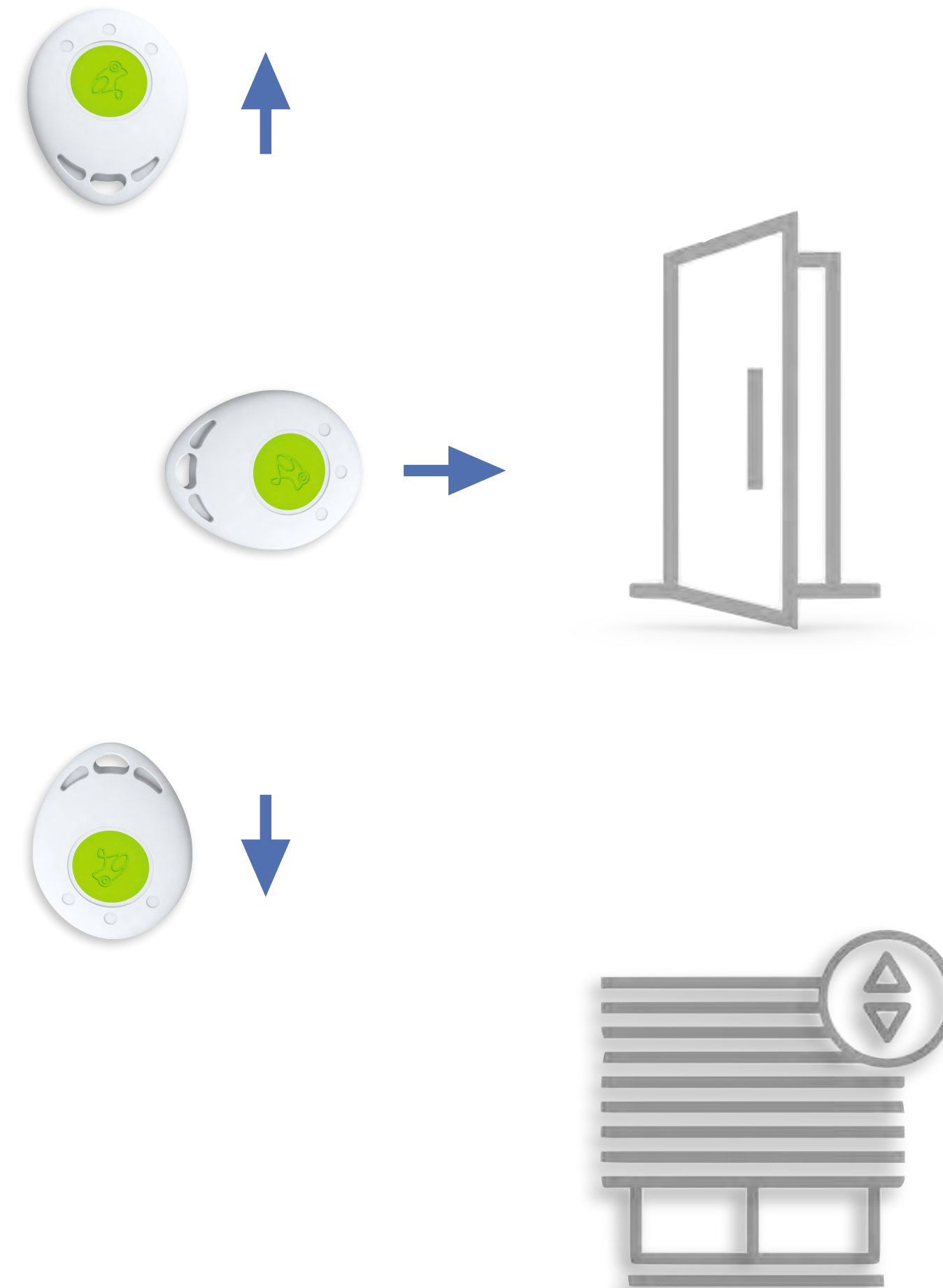
- frogStrip120e with 4 independent channels
- RGB, RGBW, tunable white, dim-to-warm
- Also independently mixed: RGB and white
- Two button inputs for contacts, switches
- From single-button to multi-button operation
- Synchronous groups in colour and brightness
- Scene and time control (astro function)
- frogStrip240e with 6 channels (2 x RGB ...)

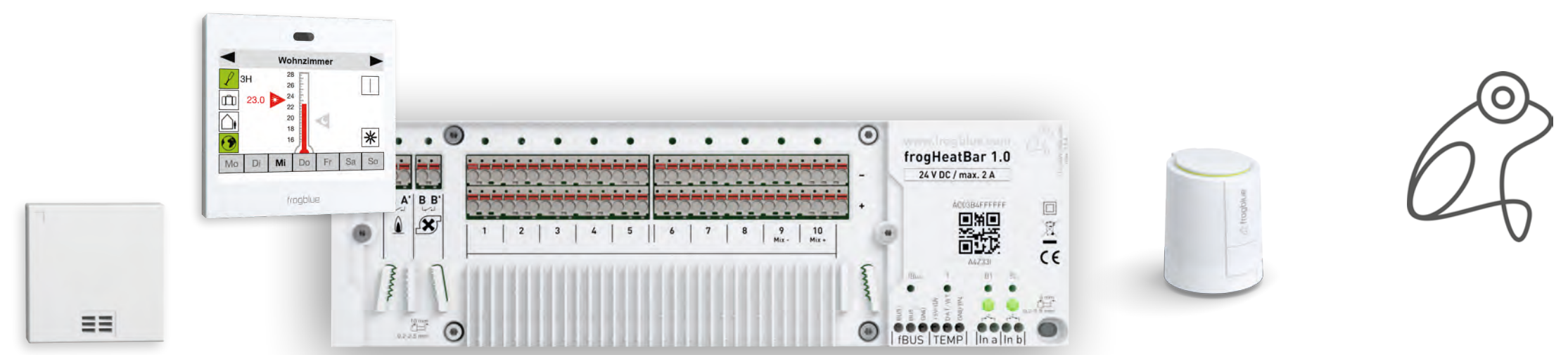




Smart remote control

- one **single** "button" controls everything
- Position sensor for innovative operation
- Double and long clicks for more features
- Room-dependent control of light, blinds, doors





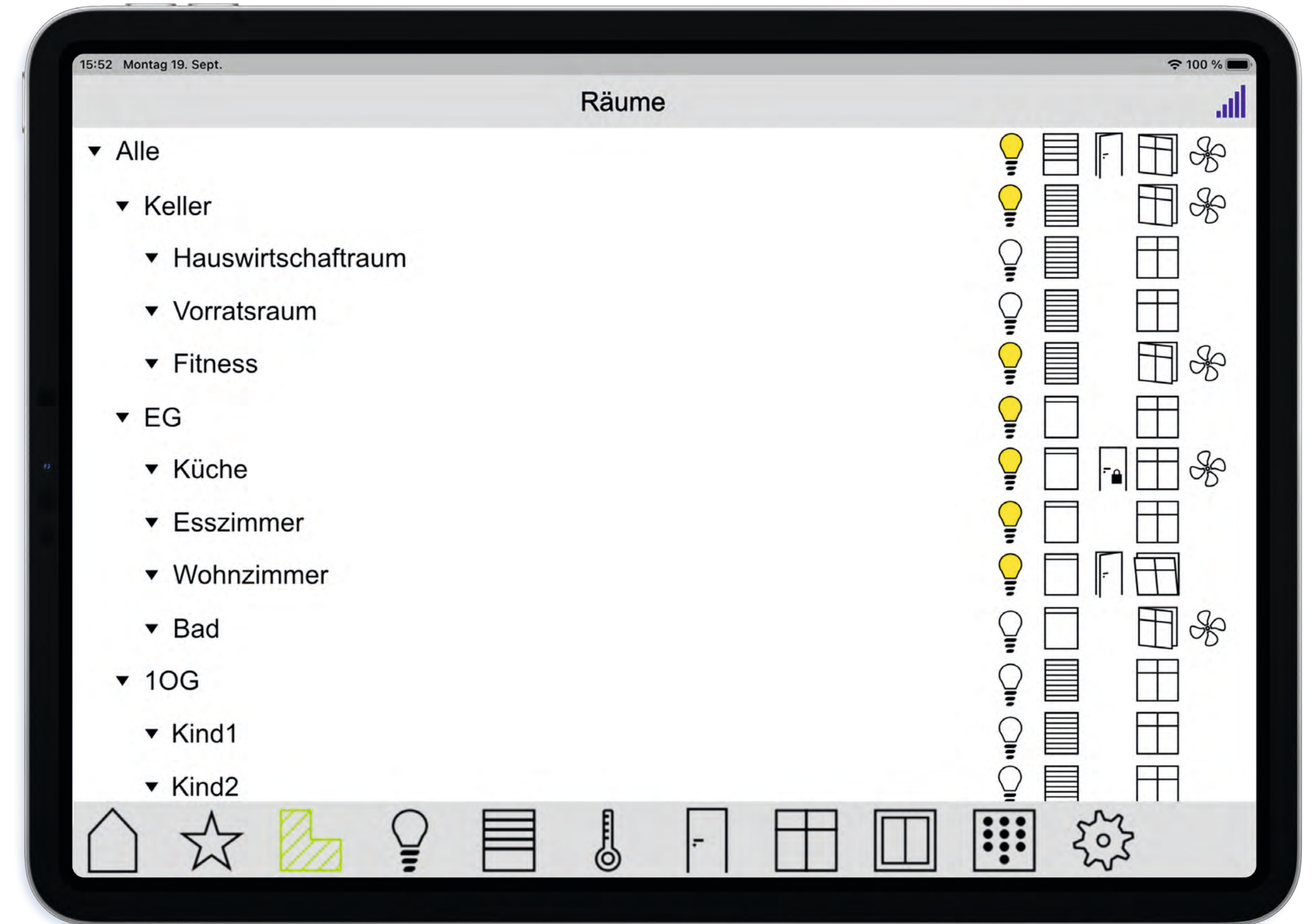
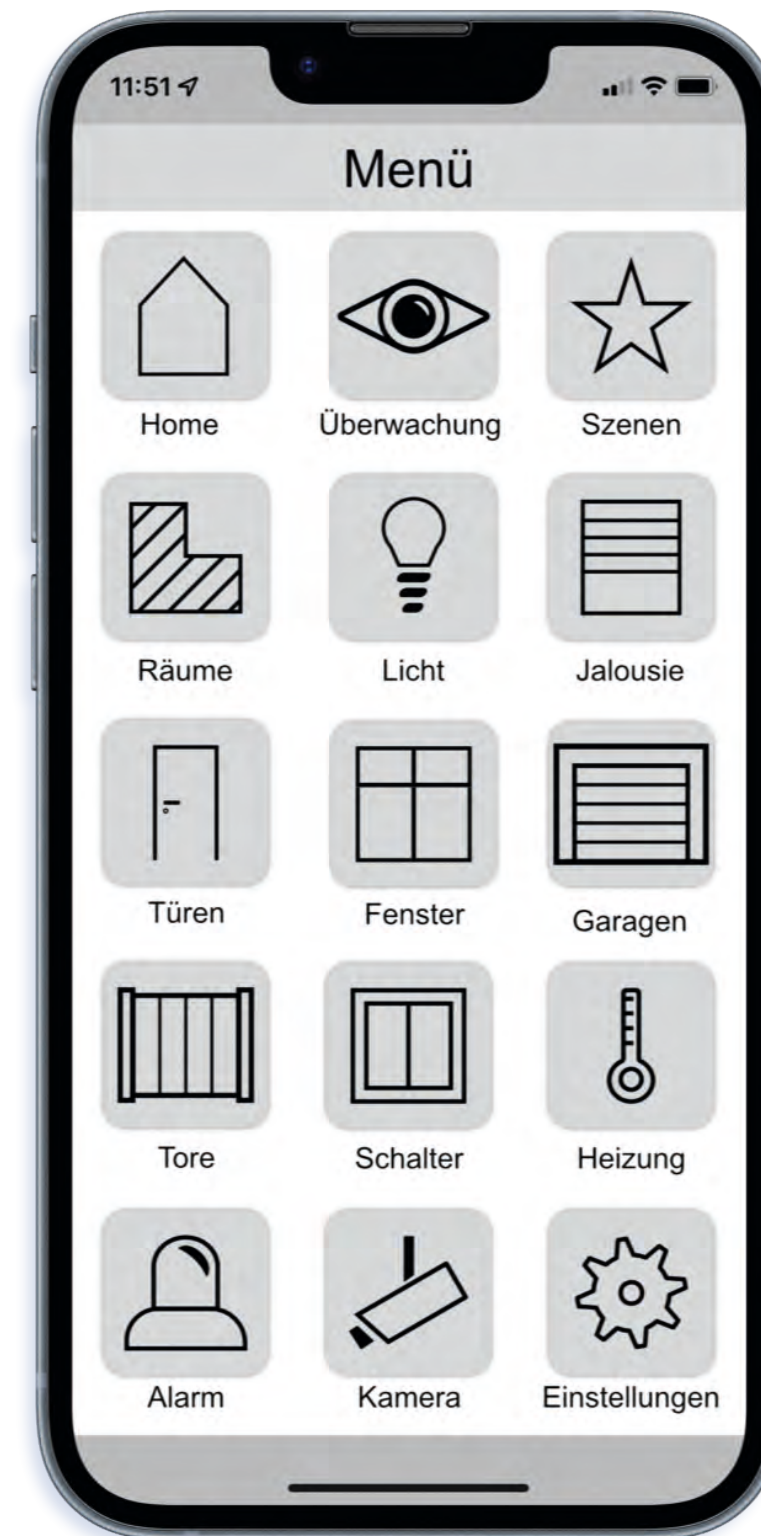
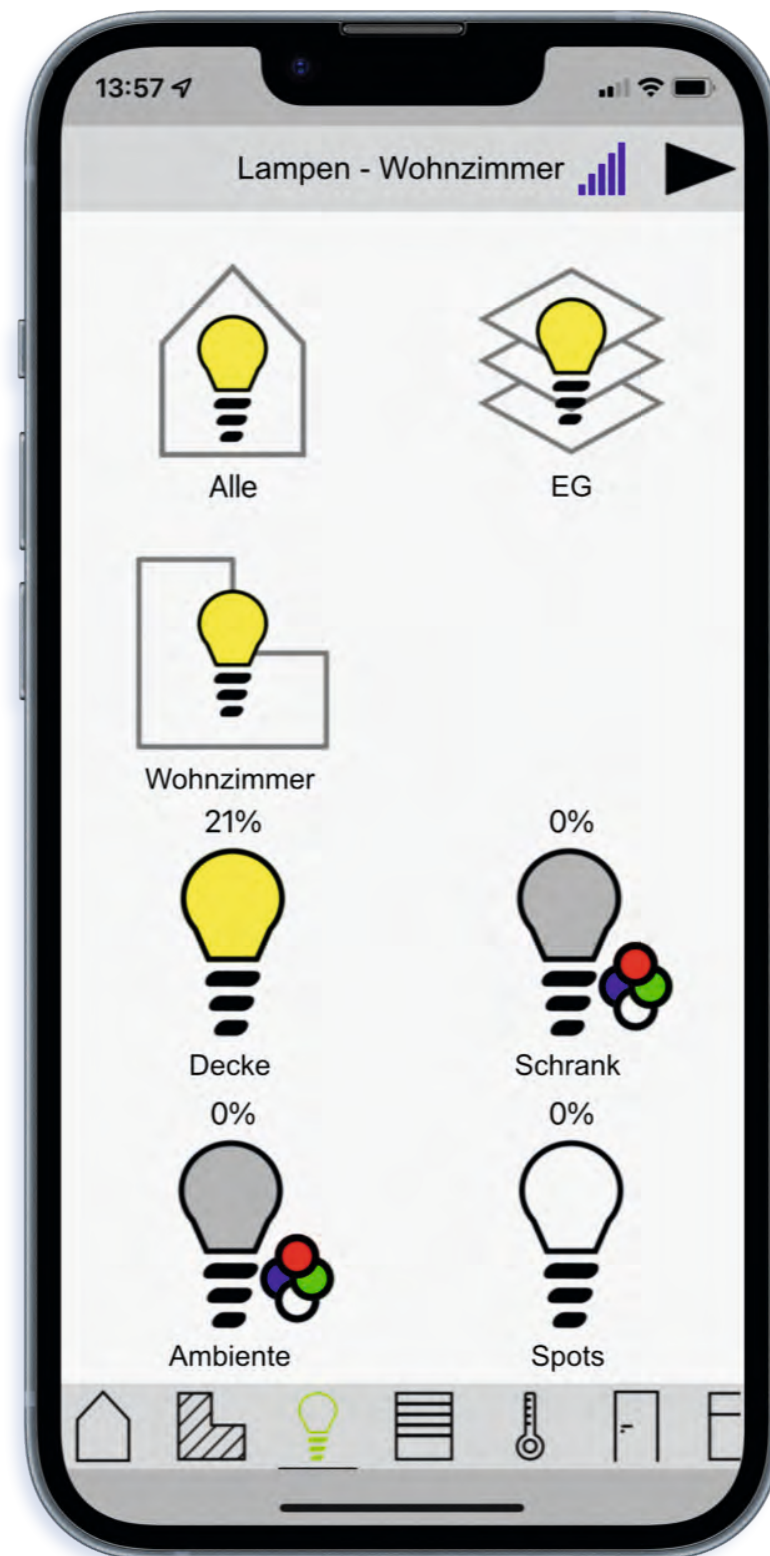
Room temperatures for well-being - and energy saving

- For underfloor heating, electric radiators or radiators
- Wired and wireless room temperature measurement
- Quick overview of the minimum and maximum temperatures in the building
- Rooms, areas & entire building are addressed in a structured manner
- Inclusion of open windows and doors
- Different reduced temperatures (night, absence, holidays)
- Innovative features: Warmfeet/Priority" provide comfort and save energy
- Analysis of target and room temperatures as well as daytime heating cycles





frogControl - is intuitive and self-configuring





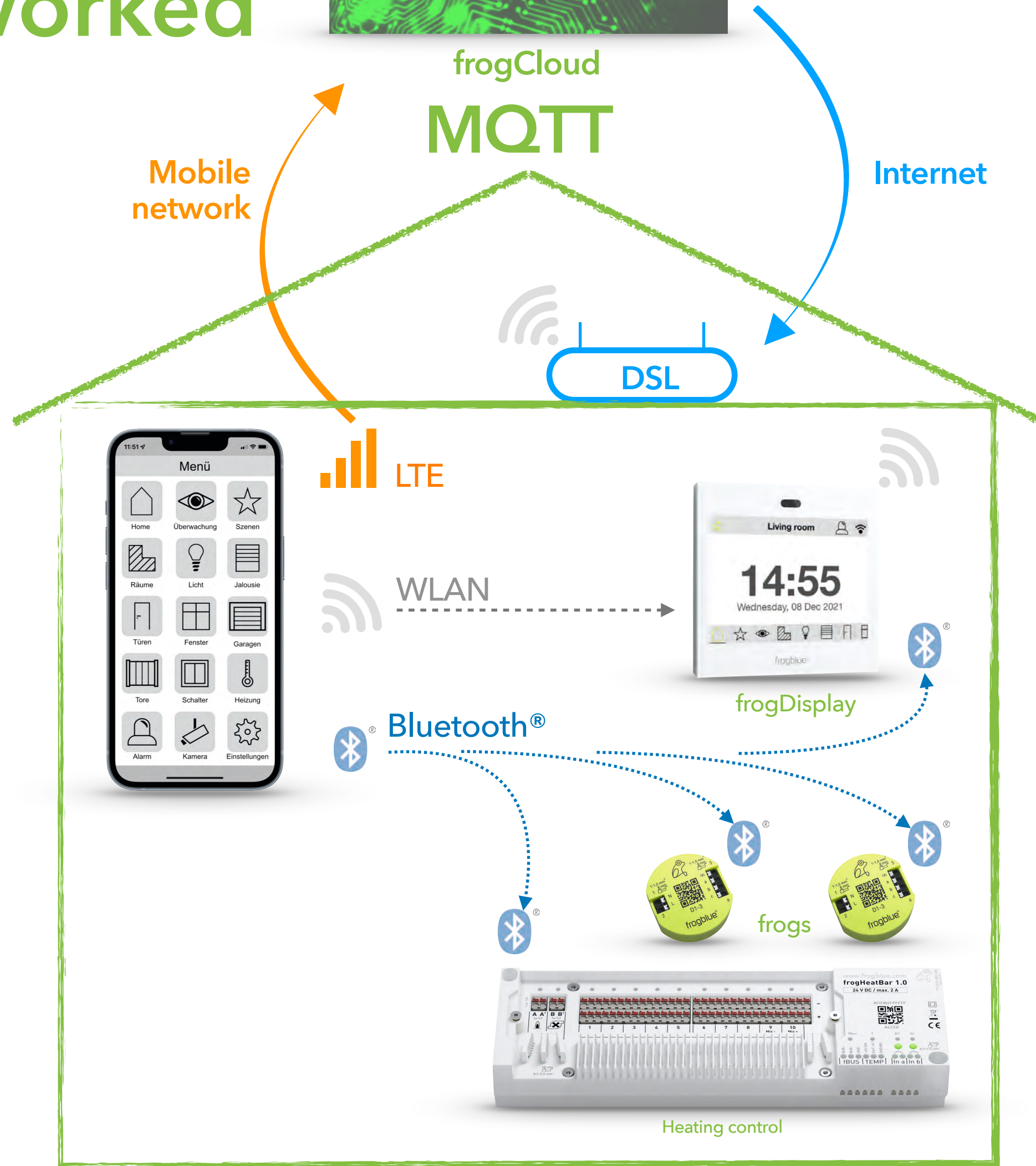
frogCloud
MQTT

Always networked

Always connected

Mobile network

Internet



Mobile mesh

WLAN mesh

Bluetooth mesh



See what's happening outside and around the world

- Crystal-clear sound and 8-megapixel all-round camera from wall to wall
- Integrated touch display for function selection and ringing
- IP-based and multi-party-capable with worldwide connection
- SIP-compatible with IP telephones, softphones and frogblue display
- Access control via PIN and/or RFID (Desfire EV2)





frogDisplay: our smartphone on the wall





ProjectApp - configure easily and automatically

- For configuring frogblue components and their interaction
- Assignment of areas, such as ground floor, and the rooms of the building
- Which lights and functions are actuated from which light switch
- Creation of group functions for lights, blinds, fans, etc.
- Definition of scenes, time-linked actions, alarms, astro function
- Message loggers and analysis tools support configuration



The screenshot displays the 'Konfiguration' (Configuration) screen for 'Familie Müller' in the 'Küche' (Kitchen) room. The interface is organized into several sections:

- Room Selection:** A dropdown menu at the top shows 'Küche' is selected.
- Device Overview:** A central panel shows 'Küchenlicht' (Kitchen Light) with a device ID 'D22', version 'v1.6.0.3', and MAC address 'a8:36:7a:ff:ff:d9'. It also displays 'Spannung' (Voltage) at 225V, 'Leistung' (Power) at 3W, 'Zeit' (Time) as 23:41 on 23-12-2019, and 'Temperatur' (Temperature) at 29.9°C.
- Backup and Status:** 'Backupstatus' shows a backup at 23:35 on 23-12-2019. 'Konfigstatus' (Configuration Status) is 'OK'.
- Output Controls:** Two sliders are visible: 'Out A' is set to 50, and 'Out B' is set to 0. A 'Trennen' (Disconnect) button is located below the sliders.
- Room List (Left Panel):** A vertical list of rooms: 'Wohnzimmer' (Living Room), 'Licht Mitte' (Light Middle), 'Licht Links' (Light Left), 'Display', 'Küche' (Kitchen), 'Küchenlicht' (Kitchen Light), and 'Küchentür' (Kitchen Door). Each room entry includes a signal strength indicator.
- Device Control Panel (Right Panel):** A list of devices with control icons:
 - 'In a' (Deckenlicht - Ceiling Light)
 - 'In b' (Stehlampe - Table Lamp)
 - 'Out A' (Deckenlicht - Ceiling Light)
 - 'Out B' (Stehlampe - Table Lamp)
- Bottom Bar:** A navigation bar with icons for home, search, and other functions.



Konfiguration
Familie Schmidt

Wohnen EG

Bücherschrank

Spannung
12V

Leistung
21W

Backup
-

v1.8.7.23
S120
frogblue
a8:36:7a:00:cf:3f

Zeit
27-09-22 08:32:34

Temperatur
28.1°C

Konfiguration
Geändert

In a

Schrank RGB

This room

In b

Schrank RGB

This room

Out G&R&B

Schrank RGB

Out W

Schrank weiß

Helligkeit
67

Farbton
▲

Sättigung
▲

Out W
100



Konfiguration Familie Schmidt

Wohnen EG

Küche Rollo Garage

v1.8.7.23

Jalousie Einstellungen

Ab **Auf**

Fahrdauer - ab

26

27 Sek.

28

Endanschlagserkennung

Überlastungserkennung

Umkehrzeit	Umschaltzeit
5	2
- Sek.	0.5 Sek.
0.1	0.6

Zusatzfahrtzeit aktivieren

Messung Kopieren Abbrechen OK

Verbinden

Display Wohnzimmer #136

EG Wohnen Tast...Terrasse Rollo #131

Essen Taster Te...se Rollo rechts #129

Key WZ #1

Küche Rollo Garage #92

MS Wohnen 2 #213

Regal RGBW links #1

Regal RGBW rechts #1

Wohnen Fenster Essen #124

In a EG_Küche Rollo Garage

In b EG_Küche Rollo Garage

Out A & B EG_Küche Rollo Garage



What makes frogblue different?

- **Professional** solution with high quality standard (VDE)
- Functions **independent of IT infrastructure**, WLAN and Internet
- **High level of reliability** as there is no central computer/server
- Uses **standard switches** from common manufacturers
- **No programming** and creation of menus
- **Immediate restart** to last state within 1 second after power cut
- **Highly secure** thanks to encryption and time stamp
- **Saves heating costs** and energy throughout the entire house - truly smart





Thank you
for your attention!