

Startseite > Dokumentation > Shelly Blu H&T Display Zb

Shelly Blu H&T Display Zb



Device identification

- Device name: Shelly BLU H&T Display ZB
- Device model: SBHT-103C
- Device Bluetooth ID: 0x000C

Short description

Shelly BLU H&T Display ZB is a battery-powered sensor featuring a crisp e-paper display that shows real-time temperature, humidity, light levels, and a digital clock - all in one compact unit.

Designed to blend into any space, the Device comes with a stand for tabletop use and can also be mounted on a wall or other vertical surface. Whether placed in your living room, nursery, or office, it gives you instant insight into indoor conditions.

With Zigbee 3.0 and Bluetooth 5.0 support, it pairs seamlessly with your smart home system and ensures reliable performance for comfort automation and energy savings.

Main features

- Real-time temperature, humidity, and light level monitoring
- Clear and energy-efficient e-paper graphic display with color inversion option
- Built-in digital clock for added convenience
- Battery-powered for flexible placement and long-lasting operation
- Power save mode to stop screen refresh in complete darkness, preserving battery life while still reporting data
- Regular clock synchronization from Shelly devices selected as Bluetooth gateways for always-accurate timekeeping (*via upcoming firmware update*)
- Dual wireless support with Zigbee 3.0 and Bluetooth 5.0
- Comes with a tabletop and wall stands for versatile setup
- Embedded rear magnets for easy attachment to metal surfaces or wall stand
- Perfect for homes, offices, or any indoor space
- Seamless integration with Shelly smart devices and third-party platforms

Use cases

- **Monitor Room Conditions at a Glance**
Place the BLU H&T Display ZB in your living room, bedroom, or office to track real-time temperature, humidity, and brightness levels
- **Ensure Comfort in Nurseries and Bedrooms**
Keep an eye on the environment where comfort matters most. Use the display to make sure the temperature and humidity stay within optimal levels for sleep and wellness.
- **Smart Lighting and HVAC Automation**
Combine with other Shelly devices to automate lighting and heating based on the room's light level, temperature, or humidity readings.
- **Optimize Energy Usage in Your Home**
Use real-time environmental data to reduce energy waste - automate blinds, fans, or heaters only when needed based on actual room conditions.
- **Keep a Cozy Atmosphere All Day**
Use the lux sensor to track changing natural light throughout the day and adjust indoor lighting for comfort, mood, or relaxation without over-lighting the space.

Main Applications

- Residential
- MDU (Multi Dwelling Units - apartments, condominiums, hotels, etc.)...
- Light commercial (small office buildings, small retail/restaurant/gas station, etc.)...
- Government/municipal
- University/college

Integrations

Amazon Alexa supported capabilities

- Temperature Sensor

Google Smart Home supported traits

- Humidity Setting
- Temperature Control (status report)

Samsung SmartThings supported capabilities

- Relative Humidity Measurement
- Temperature Measurement

Connectivity

- Bluetooth
- Zigbee

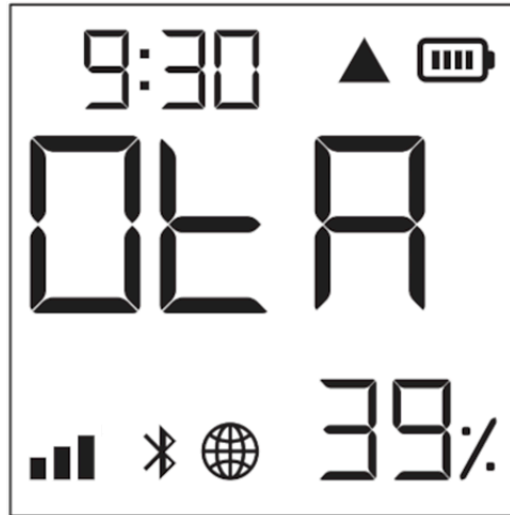
User interface

Inputs




- **Single Button**
 - **Press 1 time:** Enter setup mode for 3 minutes.
 - **Press 1 time:** Exit setup mode.
 - **Press 2 times rapidly:** Force clock synchronization via a Shelly device set as a Bluetooth gateway.
 - **Press 4 times rapidly:** Enter Bluetooth pairing mode.
 - **Press 5 times rapidly:** Enter Zigbee pairing mode.
 - **Press and hold for 5 seconds:** Toggle Bluetooth on/off.
 - **Press and hold for 10 seconds:** Toggle Zigbee on/off.
 - **Press and hold for 30 seconds:** Resets the device to factory settings.
 - **Press 2 times rapidly:** Toggle the clock display segment between showing the clock or the date.
 - **Press 3 times rapidly:** Switch temperature unit between Celsius and Fahrenheit. When Celsius is selected, the date format is DD.MM; when Fahrenheit is selected, the date format is MM.DD.
 - **Press 4 times rapidly:** Invert the display colors.
 - **Press 5 times rapidly:** Toggle the clock format between 24-hour and 12-hour.

Outputs


- E-paper graphic display



10:48	Current time
SET	The Device is in Setup mode.
BLE	Bluetooth pairing is enabled
ZbP	Zigbee pairing is enabled
HI	Zigbee identify
SYNC (on the space of the clock)	Clock is syncing
FAIL (on the space of the clock)	Clock sync failed
58%	Humidity readings
	Indicates light sensor level (3 levels).
	3 bars - Bright light
	2 bars - Twilight
	1 bar - Dark
	No bars - Battery Saver is ON. Screen updates are paused, but wireless reporting continues. Displayed data may be outdated.
	Indicates battery level
	Bluetooth connectivity is enabled

	Zigbee connectivity is enabled
	Over-the-air update is in progress. The display shows the update progress percentage instead of the humidity.
	Error while updating the firmware

Schaltplan

Quantity	Value
Physical	
Size (HxWxD):	<ul style="list-style-type: none"> 65x65x9 mm / 2.56x2.56x0.35 inch 65x65x33 mm / 2.56x2.56x1.30 inch (with tabletop stand)
Weight:	<ul style="list-style-type: none"> 38g / 1.34 oz (with batteries) 43g / 1.52 oz (with batteries and tabletop stand)
Mounting:	<ul style="list-style-type: none"> Wall Tabletop or Shelf
Shell material:	Plastic
Shell color:	<ul style="list-style-type: none"> White Black
	
Environmental	
Ambient working temperature:	-10°C to 40°C / 14°F to 105°F
Humidity:	30% to 70% RH
Max. altitude:	2000 m / 6562 ft
Electrical	
Power supply:	Batteries
Battery type:	2 x CR2032
Estimated battery life:	Approx. 2 years (depending on batteries used, device usage, and network connection strength)
Sensors, meters	
Temperature sensor:	Yes
Humidity sensor:	Yes

Light sensor:	Yes
Radio	
Bluetooth	
Protocol:	5 (LE)
RF band:	2402 - 2480 MHz
Max. RF power:	< 8 dBm
Range:	Up to 10 m / 33 ft indoors and 30 m / 100 ft outdoors (Depends on local conditions)
Zigbee	
Protocol:	802.15.4
RF band:	2405 to 2480 MHz
Max. RF power:	< 8 dBm
Range:	Up to 10 m / 33 ft indoors and 30 m / 100 ft outdoors (Depends on local conditions)
Microcontroller unit	
CPU:	EFR32MG27
Flash:	768 kB
Firmware capabilities	
Schedules:	No
Webhooks (URL actions):	No
Scripting:	No
MQTT:	No

Q&A

1. What affects the battery life of the device?

Battery life can vary depending on several factors:

- The device adjusts its e-ink refresh mode based on temperature: normal mode in standard conditions and cold mode during low or negative temperature. Cold mode reduces battery life.
- Using both Bluetooth and Zigbee concurrently can significantly reduce the battery life
- Distance from your router or hub and poor network quality can also reduce battery performance.

Troubleshooting

...

Components and APIs

- [...This devices...](#)
- [All Shelly devices and services](#)

Compliance

[BLU H&T Display ZB multilingual EU declaration of conformity 256 2025-12-18.pdf](#)

[BLU H&T Display ZB UK PSTI ACT statement of compliance 256 2025-12-18.pdf](#)

[BLU H&T Display ZB UKCA declaration of conformity 256 2025-12-18.pdf](#)

Printed User Guide

[Shelly BLU H&T Display ZB multilingual printed user and safety guide.pdf](#)

Newsletter abonnieren

Deine Mail-Adresse

Mit dem Ankreuzen dieses Kästchens stimme ich zu, Newsletter und Marketinginformationen zu Shelly Produkten, Dienstleistungen und gemeinsamen Kampagnen mit Shelly Partnern per E-Mail gemäß der Datenschutzerklärung zu erhalten. Mir ist bewusst, dass ich mich jederzeit wieder abmelden kann.

[X](#) [Instagram](#) [Facebook](#) [YouTube](#)

Unternehmen

Hilfe

Mehr erfahren

Information