

# CRP PANEL thanos EVO Casambi

Casambi Room operating unit

**thermokon**<sup>®</sup>  
HOME OF SENSOR TECHNOLOGY

## Datasheet

Subject to technical alteration  
Issue date: 17.07.2026 • A200

thanosEVO  
CASAMBI



## » APPLICATION

Room control unit with Casambi radio interface for intuitive lighting control of Casambi ecosystem participants with up to three integrated sensors for recording room temperature, humidity and CO2. Scenes are started, colours selected or luminaires switched via a 4.8"-touch screen. Easy configuration via the Casambi app allows device-specific settings or configuration of scenes and lighting functions with Casambi radio.

## » TYPES AVAILABLE

### Touch screen room operating unit temperature + opt. humidity, CO2

- CRP PANEL thanos EVO Temp Casambi\*
- CRP PANEL thanos EVO Temp\_rH Casambi\*
- CRP PANEL thanos EVO Temp\_rH CO2 Casambi\*

*\* also available as design variant*

## » SECURITY ADVICE – CAUTION

The installation and assembly of electrical equipment should only be performed by authorized personnel.



The product should only be used for the intended application. Unauthorized modifications are prohibited! The product must not be used in relation to any equipment that in case of failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installation. Do not connect to live/operating equipment.

Please comply with

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

## » PRODUCT TESTING AND CERTIFICATION



### Declaration of conformity

The declaration of conformity of the products can be found on our website  
<https://www.thermokon.de/direct/en-gb/categories/thanos-evo>

## » NOTES ON DISPOSAL



The cross-out wheellie bin symbol indicates that the product or removable batteries must not be disposed of with household or commercial waste. Within the EU, you are legally obliged to dispose of the product separately and appropriately in accordance with the national laws of your country. Alternatively, please contact your supplier or Thermokon Sensortechnik GmbH. Further information can be found at: [www.thermokon.com](http://www.thermokon.com)

## » MOUNTING ADVICE ROOM SENSORS

The accuracy of the room sensors is influenced by their technical specifications as well as their installation position and mounting method.

### During installation, observe the following:

- Seal the flush-mounted wall box (if applicable).
- Air drafts, heat sources, radiant heat, or direct sunlight at the installation location may affect the measurement.
- The building material at the installation location (e.g. brick, concrete, stud walls, or cavity walls) may affect the measurement.

### Installation is not recommended in the following locations:

- Areas exposed to air drafts (e.g. near windows, doors, or ventilation outlets)
- Near heat sources
- In direct sunlight
- In niches or behind/between furniture

## » BUILD-UP OF SELF-HEATING DUE TO ELECTRICAL POWER DISSIPATION

Sensors with electronic components always dissipate power, which affects the measurement of the ambient air temperature. In active temperature sensors, the power dissipation increases linearly with the operating voltage. This dissipated power must be considered when measuring temperature. With a fixed operating voltage ( $\pm 0.2$  V), this can normally be compensated for by applying a constant offset value.

Thermokon transducers can be operated with variable operating voltages. The transducers are factory-calibrated at a reference operating voltage of 24 V =. At this voltage, the expected measurement error of the output signal is minimized. Operating the transducers at other voltages may result in measurement deviations due to changes in the power dissipation of the sensor electronics.

Recalibration can be performed either directly on the device or via a software parameter (app or bus).

**Note: Airflow improves the dissipation of heat generated by the sensor electronics. As a result, temporary fluctuations in the measured temperature may occur.**

## » APPLICATION NOTES FOR HUMIDITY SENSORS

Under normal environmental conditions, it is recommended to calibrate the sensor annually to verify that it continues to meet the accuracy requirements of the application. The following conditions may damage the sensor element or, over time, cause it to fall outside the specified accuracy:

- Mechanical stress
- Contamination (e.g. dust or fingerprints)
- Exposure to aggressive chemicals
- Adverse ambient conditions (e.g. condensation on the sensor element)



**Do not touch  
the sensor element!**

**Recalibration or replacement of the sensor element is not covered by the standard warranty.**

## » INFORMATION ON THE CO2 SELF-CALIBRATION FEATURE

All gas sensors are subject to drift over time. The extent of this drift depends on the components used and the overall product design. In addition, the following environmental conditions may accelerate sensor aging and increase drift:

- Mechanical stress (including stress caused by temperature fluctuations)
- Contamination (e.g. dust or fingerprints)
- Exposure to aggressive chemicals
- Adverse ambient conditions (e.g. high humidity or condensation on the sensor element)

An integrated self-calibration function based on dual-channel technology automatically compensates for this drift. Thermokon sensors are designed for continuous operation, making them suitable for applications with permanent occupancy (e.g. hospitals).

## » INFORMATION ON INDOOR AIR QUALITY CO2

EN 13779 defines several classes for indoor air quality:

| Category | CO2 content above the outdoor air concentration in ppm |                | Description                 |
|----------|--------------------------------------------------------|----------------|-----------------------------|
|          | Typical range                                          | Standard value |                             |
| IDA1     | <400 ppm                                               | 350 ppm        | Good indoor air quality     |
| IDA2     | 400..600 ppm                                           | 500 ppm        | Standard indoor air quality |
| IDA3     | 600..1.000 ppm                                         | 800 ppm        | Moderate indoor air quality |
| IDA4     | >1.000 ppm                                             | 1.200 ppm      | Poor indoor air quality     |

## » TECHNICAL DATA

|                       |                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring values      | Temperature, optional humidity   CO2                                                                                                                                                                       |
| Network technology    | Casambi (Evolution) 2,4 GHz                                                                                                                                                                                |
| Power supply          | 24 V = ( $\pm 10\%$ ) or 24 V ~ ( $\pm 10\%$ ) SELV<br>Power supplies with a 'hiccup' start-up behaviour are not suitable.<br><i>When using AC voltage, care must be taken to ensure correct polarity.</i> |
| Power consumption     | Typ. 3 W (24 V =)   6 VA (24 V ~) <sup>2</sup>                                                                                                                                                             |
| Measuring range temp  | 0..+50 °C                                                                                                                                                                                                  |
| Accuracy temperature  | $\pm 0,5$ K (typ. at 21 °C)                                                                                                                                                                                |
| Casambi functions     | Light ON/OFF/DIM, colour temperature, colour control RGBW, setup scenarios, 2D Room plan, measured value display & history                                                                                 |
| Display               | TFT 4,8", 1120x480 px, capacitive touch technology                                                                                                                                                         |
| Enclosure             | PC V0 and glass, Surface glass, white or black   design variant glass + aluminium                                                                                                                          |
| Protection            | IP30 according to DIN EN 60529                                                                                                                                                                             |
| Cable entry           | Rear entry, breaking points bottom, drill mark top                                                                                                                                                         |
| Connection electrical | Tool-free mountable spring terminal, max. 1,5 mm <sup>2</sup>                                                                                                                                              |
| Ambient condition     | 0..+50 °C, max. 85 % non-condensing                                                                                                                                                                        |
| Mounting              | Surface mounted on flush-mounting box ( $\varnothing = 60$ mm) or to be mounted flat onto the surface using screws, base part can be mounted and wired separately                                          |

<sup>2</sup> type inrush current: 2A (< 5 ms)

## » Humidity (optional)

|                                        |                                               |
|----------------------------------------|-----------------------------------------------|
| Measuring range humidity<br>(relative) | 0..100 % rH                                   |
| Accuracy humidity                      | $\pm 2$ % between 10..90 % rH (typ. at 21 °C) |

## » CO2 (optional)

|                     |                                                                |
|---------------------|----------------------------------------------------------------|
| Measuring range CO2 | 0..2000                                                        |
| Accuracy CO2        | $\pm 50$ ppm +3 % of reading, typ. at 21 °C, 50 % rH, 1015 hPa |
| Calibration         | Self-calibration dual channel                                  |
| Sensor              | NDIR (non-dispersive, infrared)                                |

## » CONNECTION PLAN

## Room operating unit – Casambi

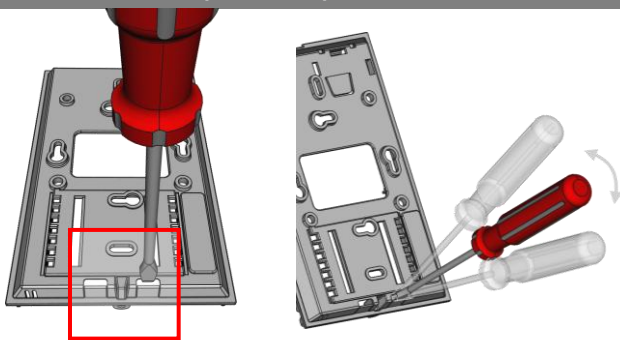
## thanos EVO

|                                                                                     |                                                            |
|-------------------------------------------------------------------------------------|------------------------------------------------------------|
|  | — n.c.                                                     |
|  | — n.c.                                                     |
|  | — n.c.                                                     |
|  | — n.c.                                                     |
|  | — n.c.                                                     |
|  | — GND ——— 0 V ⊥                                            |
|  | — UB+ ——— 24 V = ( $\pm 10\%$ ) oder 24 V ~ ( $\pm 10\%$ ) |

## » MOUNTING ADVICE

### Cable entry

The underside of the base plate features two predetermined break-out points for optional cable entries



Please ensure that the device is de-energized before installation!

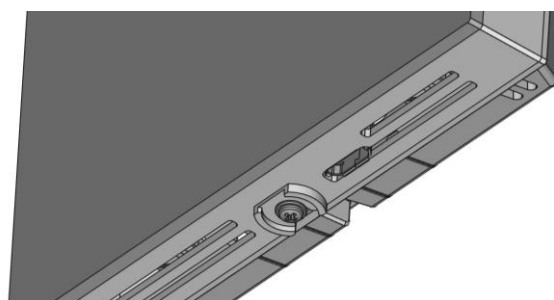
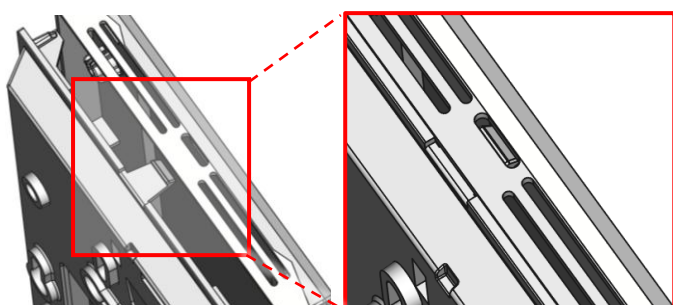
The installation can be performed on a flat wall surface or on a flush-mounted box. A representative installation location should be selected. Direct sunlight and drafts, e.g. through the installation tube, should be avoided to prevent falsification of the measurement result. Seal the end of the installation tube.

- For wiring, the upper part of the device must be removed from the base plate. The base plate and the upper part are detachably connected by means of locking lugs.
- The base plate is mounted on the flat wall surface using wall plugs and screws.
- Finally, the device is attached to the base plate and secured with the screw.

### Opening / Closing the Housing

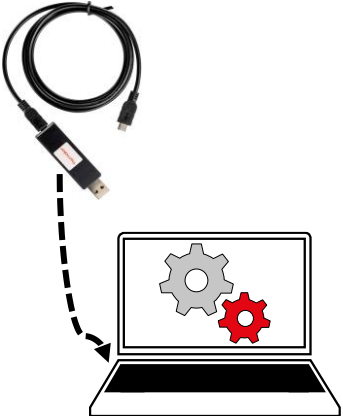
Snap the upper part of the housing into the locking lug on the upper side

Secure the upper part of the housing on the underside with the screw

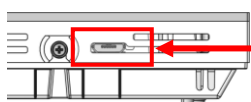


## » CONFIGURATION

The configuration is performed while the device is powered. The following options are available for configuring the device:

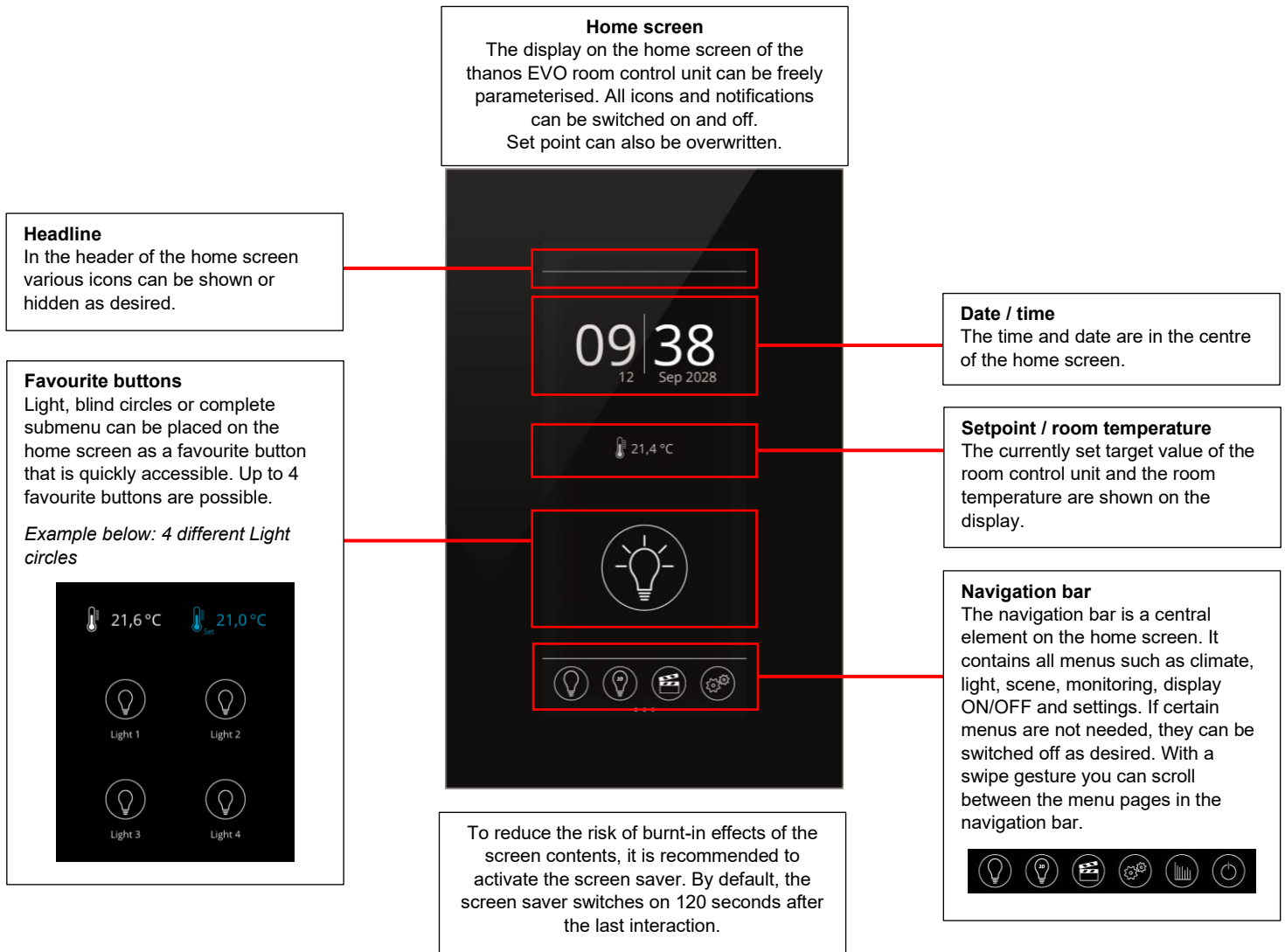
| Device connection      | Casambi communication                                                                                           | Micro-USB                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Configuration adapter  | Internal<br>                 | Thermokon USB-Interface<br><br>For the 2D Room-plan transfer       |
| Configuration software | Smartphone/Tablet with CASAMBI App<br><i>Parameterization with mobile device via Bluetooth and CASAMBI App.</i> | PC/Notebook with uConfig Software<br><i>Partly parameterization with Thermokon uConfig software, via Micro RS-232/USB Converter* (Art.-No.: 597838)</i> |

\*Commercially available Bluetooth dongles or USB to Micro-USB adapter cables are not compatible.



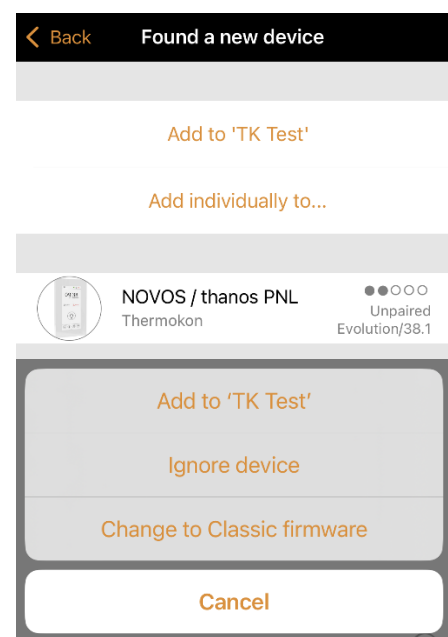
Position of the Micro-USB port, see bottom of the device, for configuration with Bluetooth dongle or Micro-USB programming interface

## » FUNCTION DESCRIPTION – HOME SCREEN THANOS EVO



## » CASAMBI COMISSIONING

1. Connect the device to the power supply. Observe the connection diagram!
2. Open Casambi App (iOS App Store / Android Play Store)  
*If an unpaired device is found, it is suggested to add the device to a network.*
3. Add thanos EVO to an existing Casambi network, if required switch to other Casambi network first.  
*After pressing the "back" button the network can be changed ("my networks").*
4. The device appears in the gateway section.
5. Configure the thanos Evo Casambi parameters.



## » CASAMBI PARAMETER

| PARAMETERS   |                |
|--------------|----------------|
| Settings     | d12r >         |
| Favorites    | 0000 >         |
| G1 selection | Select group > |
| G1 name      | G1 Name >      |
| G1 type      | 30112740 >     |

### Settings (parameter LTBC)

#### L = Language

D – German  
E – English  
X – No change

#### T = Time synch

0 – No time synch  
1 – Time synch from  
Casambi to device

#### B = Behavior

1 – External control  
(configurable via BUS)  
2 – Standalone/panel  
(configurable only via CASAMBI)

#### C = Display color scheme

x Background color / text color  
0 No change

B Black / white  
W White / black

G Green / white  
L Blue / white

R Red / white

Example settings: d12l = German | time synch | standalone/panel | background color blue / text color white

| PARAMETERS   |                |
|--------------|----------------|
| Settings     | d12r >         |
| Favorites    | 0000 >         |
| G1 selection | Select group > |
| G1 name      | G1 Name >      |
| G1 type      | 30112740 >     |

### Favourites\* (ABCDE)

A Favorite button 1  
B Favorite button 2  
C Favorite button 3  
D Favorite button 4  
E Favorite button 5

Default value: 0 - none

i.e.: 0b300

– None / scene 2 / group 3

| PARAMETERS   |                |
|--------------|----------------|
| Settings     | d12r >         |
| Favorites    | 0000 >         |
| G1 selection | Select group > |
| G1 name      | G1 Name >      |
| G1 type      | 30112740 >     |

### Gx selection / name (Selection / input field)

**Selection** – Casambi group

**Name** – Group name

### Favourites

1 Group 1  
2 Group 2  
3 Group 3  
4 Group 4  
5 Group 5  
6 Group 6  
7 Group 7  
8 Group 8

a Scene 1  
b Scene 2  
c Scene 3  
d Scene 4  
e Scene 5  
f Scene 6  
g Scene 7  
h Scene 8

i Presence  
j Eco  
k Climate menu  
l Lighting menu  
m Blind menu  
n Scene menu  
o Monitoring menu  
p Fan menu (Novos 7)

q Shading 1  
r Shading 2  
s Shading 3  
t Shading 4  
u Shading 5  
v Shading 6  
w Shading 7  
x Shading 8

| PARAMETERS   |                |
|--------------|----------------|
| Settings     | d12r >         |
| Favorites    | 0000 >         |
| G1 selection | Select group > |
| G1 name      | G1 Name >      |
| G1 type      | 30112740 >     |

### Gx type

(Light group configuration)

#### ITDSMnMx

I – Icon

T – Type

D – Dim function

S – Step size

Mn / Mx – Minimum / maximum  
colour temperature

|              |                |
|--------------|----------------|
| Scene symbol | 11111111       |
| S1 selection | Select scene > |
| S1 name      | S1 Name >      |
| S2 selection | Select scene > |
| S2 name      | S2 Name >      |

### Scene symbol

(Scene symbol configuration) \*

1. digit = Scene symbol 1  
2. digit = Scene symbol 2...

### Sx selection / name (Selection / input field)

**Selection** – Scene

**Name** – Scene name

### Gx type parameter listing

I 0 – Universal, 1 – Spot, 2 – Cassette, 3 – Floor lamp (default)  
T 0 – Slider (default), 1 – RGBW colourpicker, 2 – Colour temperature picker  
D 0 – Not dimmable, 1 – Dimmable (default)  
S 0 – 1, 1 – 1 (default), 2 – 2, 3 – 3, 4 – 4, 5 – 5, 6 – 10, 7 – 15, 8 – 20 (in %)  
Mn Input value (2 digits) multiplied with 100 = minimum kelvin (colour temperature)  
(i.e.: Mn = 27 -> CTmin = 27 \* 100 = 2700 K (default))  
Mx Input value (2 digits) multiplied with 100 = maximum kelvin (colour temperature)  
(i.e.: Mx = 40 -> CTmax = 40 \* 100 = 4000 K (default))

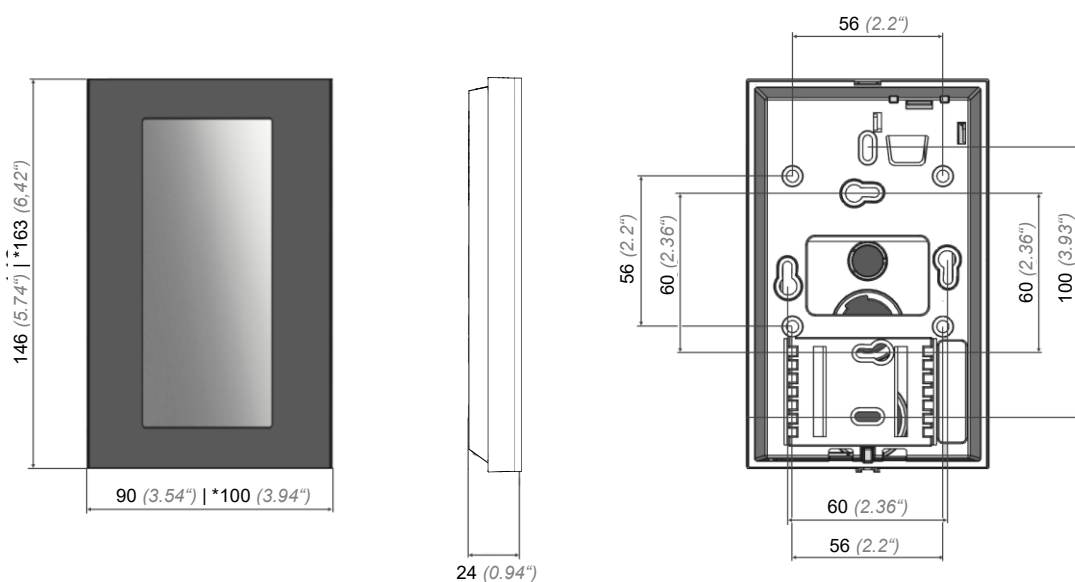
Example Gx type: 30112740 = Floor lamp | slider | dimmable | 1 | min kelvin color temp 2700k | max kelvin color temp 4000k

### Scene symbol parameter listing

0 Work (briefcase)  
1 Presentation (canvas)  
2 Cinema (screen)  
3 Party (cocktail glass)  
4 Bedroom (bed)  
5 Food (serving bell)  
6 Do not disturb (lock)  
7 Cleaning (vacuum cleaner)  
8 Scene (clapperboard)

Example scene symbol: 02437000 = Scene 1: work | scene 2: cinema | scene 3: bedroom | scene 4: party | scene 5: cleaning

## » DIMENSIONS (MM)



\* Thanos Evo Design  
Dimensions

## » ACCESSORIES (OPTIONAL)

Wall plugs and screws (2 pcs. each)

PSU-UP24 – flush mount power supply 24 V (AC Input: 100..240 V ~ | DC Output 24 V = 0,5 A)

Thermokon USB-Interface

Item No. 102209

Item No. 645737

Item No. 597838