thanos EVO LON

Room operating unit temperature, optional with humidity | CO2 | VOC



Datasheet

Subject to technical alteration Issue date: 05.02.2024 • A131





» APPLICATION

Room control unit with room temperature measurement, optional humidity, CO2, or VOC and a monitoring function for colourful visualization of the measured values. The maintenance-free sensor creates the conditions for a pleasant indoor climate and well-being. Typical applications are schools, office buildings, hotels or cinemas. The room control unit has a high-resolution 4.8 "display with a noble glass surface. The innovative and self-explanatory operation offers the functions of light, shading, climate and scene control for intelligent room automation.

» TYPES AVAILABLE

Touch screen room operating unit temperature + opt. humidity, CO2, VOC - active BUS

- thanos EVO Temp LON
- thanos EVO Temp rH LON
- thanos EVO CO2 Temp_rH LON
- thanos EVO VOC Temp_rH LON
- thanos EVO CO2+VOC Temp_rH LON

*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. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a 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 installing. 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

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» MOUNTING ADVISE ROOM SENSORS

The Accuracy of the room sensors are influenced by the technical specifications as well as the positioning and the installation type.

During Assembly:

- Seal mounting box (if present).
- Installation type, air draught, heat source, radiation heat or direct sunlight can affect the measurement.
- Bulding material specific properties of the installation place (brick-, concrete-, partition wall, cavity wall, ...) can affect the measurement.
 (e.g.: Concrete accepts room temperature variation slower than cavity walls)

Assembly not recommendet in...

- Air draught (e.g.: close to windows / doors / fans ...)
- Near heating sources,
- Direct sunlight
- Niches / between furniture / ...

» BUILD-UP OF SELF-HEATING BY ELECTRICAL DISSIPATIVE POWER

Sensors with electronic components always have a dissipative power, which affects the temperature measurement of the ambient air. The dissipation in active temperature sensors shows a linear increase with rising operating voltage. This dissipative power has to be considered when measuring temperature. In case of a fixed operating voltage (±0,2 V) this is normally done by adding or reducing a constant offset value.

Thermokon transducers can be operated with variable operating voltages. The transducers are set at the factory with a reference operating voltage of 24 V =.

At this voltage, the expected measuring error of the output signal will be the least. Other operating voltages, can cause a measurement deviation changing power loss of the sensor electronics.

A recalibration can be carried out directly on the unit or via a software variable (app or bus).

Remark: Occurring draught leads to a better carrying-off of dissipative power at the sensor. Thus temporally limited fluctuations might occur upon temperature measurement.

» APPLICATION NOTICE FOR HUMIDITY SENSORS

At regular environmental condition, it is recommended to calibrate the sensor annually to check the compliance with the accuracy required in the application. The following conditions can damage the sensor element or lead in long therm to loss of the specified accuracy:

- Mechanical stress
- Contamination (e.g. dust / fingerprints)
- Aggressive chemicals
- Ambient conditions (e.g. condensation on measuring element)



Re-calibration or exchange of the sensor element are not subject of the general warranty.

» INFORMATION ABOUT SELF-CALIBRATION FEATURE CO2

All gas sensors are subject to drift. The degree of drift is dependent on the use of components and product design. In addition, the following environmental conditions, among others, can accelerate/ favor the aging and wear of the sensors:

- Mechanical stress (also due to temperature fluctuation)
- Contamination (dust / fingerprints e.g.)
- Abrasive chemicals
- Environmental influences (high humidity / condensation on measuring element)

An internal self calibration function with dual channel technology

» INFORMATION ABOUT INDOOR AIR QUALITY CO2

EN 13779 defines several classes for indoor air quality:

| Category | CO2 content above the con | tent in outdoor air 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 | 6001.000 ppm | 800 ppm | Moderate indoor air quality |
| IDA4 | >1.000 ppm | 1.200 ppm | Poor indoor air quality |

» NOTES ON DISPOSAL



The crossed-out wheelie 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

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» APPLICATION NOTICE FOR AIR QUALITY SENSORS VOC

Volatile organic compunds (VOC) are gaseous and vaporous substances of organic origin in the air. VOC-sensors monitor the significant part of humanly olfactory sensed air quality. (e.g. body odur | tobacco smoke | odur of materials, furniture, carpets, paint, adhesives, ...)

The VOC-Value is an application-specific indication for air quality and doesn't provide any information about individual components of VOC

A VOC sensor oxidises the organic molecules that collide with it, which results in changing the resistance of the semiconductor.

Any contact with the sensitive sensors must be avoided and will invalidate the warranty.

The VOC Sensor is factory calibrated and can be calibrated via NOVOSapp subsequently, if needed.

» TECHNICAL DATA

| LON TP/FT-10 (twisted pair / free topology) Power supply | | | | | | | | |
|--|--|--|--------------------|---|---|--|--|--|
| Power supply 24 V = (±10%) SELV typ, 2,5 W (24 V =) 2x input for floating contact, 1x input for external NTC10k Control functions 2x input for floating contact, 1x input for external NTC10k Control functions 2x input for floating contact, 1x input for external NTC10k Control functions 2x input for floating contact, 1x input for external NTC10k Control functions 2x input for floating contact, 1x input for external NTC10k Control functions 2x input for floating contact, 1x input for external NTC10k Control functions TFT 4,8*, 1120x480 px, capacitive touch technology For Vo and glass, Design surface glass, white or black Protection IP30 according to DIN EN 60529 Cable entry Connection electrical tool-free mountable spring terminal, max. Ø 0,8 mm Ambient condition 0.+50 °C, max. 85% non-condensing surface mounted on flush-mounting box (Ø=60 mm) , base part can be mounted and wired separately **Protection** **Measuring range term** **Description** **Description** **Description** **Protection** 0.+50 °C 2-0,5K (typ. at 21 °C) **Protection** **Description** **Descript | Measuring values | temperature, optional humidity CO2 VOC | | | | | | |
| typ. 2,5 W (24 V =) 2x input for floating contact, 1x input for external NTC10k cocupancy signalling, light ON/OFF/DIM, setup scenarios, blinds UP/DOWN/SET, fan stages, setpoint, measured value display & history TFT 4,8°, 1120x480 px, capacitive touch technology PC V0 and glass, Design surface glass, white or black Protection IP30 according to DIN EN 60529 Cable entry Connection electrical tool-free mountable spring terminal, max. Ø 0,8 mm O.+50 °C, max. 85% non-condensing surface mounted on flush-mounting box (Ø=60 mm) , base part can be mounted and wired separately Premperature Measuring range temp O.+50 °C Accuracy temperature Display Felative humidty (optional) Measuring range humidity application of relative in Thermokon NOVOSapp or BUS Accuracy humidity 22% between 10.90% rH (typ. at 21 °C) Accuracy CO2 25(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) Sensor NDIR (non-dispersive, infrared) Measuring range VOC Calibration Self-calibration Self-calibration Self-calibration | Network technology LON TP/FT-10 (twisted pair / free topology) | | | | | | | |
| 2 x input for floating contact, 1 x input for external NTC10k | Power supply | 24 V = (±10%) SELV | 24 V = (±10%) SELV | | | | | |
| occupancy signalling, light ON/OFF/DIM, setup scenarios, blinds UP/DOWN/SET, fan stages, setpoint, measured value display & history TFT 4,8", 1120x480 px, capacitive touch technology Enclosure PC V0 and glass, Design surface glass, white or black Protection IP30 according to DIN EN 60529 Cable entry connection electrical tool-free mountable spring terminal, max. Ø 0,8 mm Ambient condition 0.+50 °C, max. 85% non-condensing surface mounted on flush-mounting box (Ø=60 mm) , base part can be mounted and wired separately Temperature Measuring range temp 0.+50 °C Accuracy temperature ### 4.5K (typ. at 21 °C) ### Weasuring range humidity coptional configurable) relative humidty coptional configurable ### 2.5K (typ. at 21 °C) ### 2.5C (optional) ### 3% of reading), (typ. at 21 °C) ### CO2 (optional) ### 2.5C (optional) ### 3% of reading), (typ. at 21 °C, 50% rH, 1015 hPa) ### 2.5C (optional) ### 3% of reading), (typ. at 21 °C, 50% rH, 1015 hPa) ### 2.5C (optional) ### 3% of reading), (typ. at 21 °C, 50% rH, 1015 hPa) ### 3.5C (optional) ### 3% of reading), (typ. at 21 °C, 50% rH, 1015 hPa) ### 3.5C (optional) ### 3% Of calibration ### 3% Of calibration ### 3.5C (optional) ### 3% Of calibration ### 3.5C (optional) ### 3% Of calibration ### 3.5C (optional) ### 3.5C (optional) | Power consumption | typ. 2,5 W (24 V =) | | | | | | |
| measured value display & history TFT 4,8*, 1120x480 px, capacitive touch technology Enclosure PC V0 and glass, Design surface glass, white or black Protection IP30 according to DIN EN 60529 Cable entry rear entry, drill mark top Connection electrical tool-free mountable spring terminal, max. Ø 0,8 mm Ambient condition 0+50 °C, max. 85% non-condensing surface mounted on flush-mounting box (Ø=60 mm) , base part can be mounted and wired separately **Temperature** Measuring range temp 0+50 °C 40,5K (typ. at 21 °C) **Humidity (optional) Measuring range humidity (optional) Configurable via Thermokon NOVOSapp or BUS **Accuracy humidity (aptional) **Accuracy CO2 (aptional) **Measuring range CO2 **Accuracy CO2 (aptional) **Measuring range VOC Calibration self-calibration dual channel **NDIR (non-dispersive, infrared) **VOC (aptional) **Measuring range VOC Calibration self-calibration | Inputs | 2x input for floating contact, 1x input for external NTC10k | | | | | | |
| Enclosure PC V0 and glass, Design surface glass, white or black Protection IP30 according to DIN EN 60529 Cable entry rear entry, drill mark top Connection electrical tool-free mountable spring terminal, max. Ø 0,8 mm Ambient condition 0+50 °C, max. 85% non-condensing Mounting surface mounted on flush-mounting box (Ø=60 mm), base part can be mounted and wired separately >>> Temperature Measuring range temp 0+50 °C Accuracy temperature ±0,5K (typ. at 21 °C) >>> Humidity (optional) Measuring range humidity (optional) Measuring range humidity (optional) Configurable) via Thermokon NOVOSapp or BUS Accuracy humidity ±2% between 1090% rH (typ. at 21 °C) >>> CO2 (optional) Measuring range CO2 1.500 pm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) Calibration self-calibration dual channel Sensor NDIR (non-dispersive, infrared) >>> VOC (optional) Measuring range VOC Calibration self-calibration | Control functions | | | | | | | |
| Protection IP30 according to DIN EN 60529 Cable entry rear entry, drill mark top Connection electrical tool-free mountable spring terminal, max. Ø 0,8 mm Ambient condition 0.+50 °C, max. 85% non-condensing surface mounted on flush-mounting box (Ø=60 mm), base part can be mounted and wired separately ***Temperature** Measuring range temp 0.+50 °C ±0,5K (typ. at 21 °C) ***Humidity (optional) Measuring range humidity (default) 0100% rH configurable via Thermokon NOVOSapp or BUS ***Legitional Configurable of Particular Partic | Display | TFT 4,8", 1120x480 px, capacitive touch technology | | | | | | |
| rear entry, drill mark top tool-free mountable spring terminal, max. Ø 0,8 mm 0+50 °C, max. 85% non-condensing surface mounted on flush-mounting box (Ø=60 mm) , base part can be mounted and wired separately ***Temperature** Measuring range temp 0+50 °C **Accuracy temperature** #*D,5K (typ. at 21 °C) #*Humidity (optional) Measuring range humidity (ofefional) **Configurable) **Colliptional configurable) **Determined to the first of the firs | Enclosure | PC V0 and glass, Design surface glass, white or black | | | | | | |
| tool-free mountable spring terminal, max. Ø 0,8 mm 0+50 °C, max. 85% non-condensing surface mounted on flush-mounting box (Ø=60 mm), base part can be mounted and wired separately **Temperature** Measuring range temp 0+50 °C Accuracy temperature ***Humidity (optional) Measuring range humidity (optional configurable) **Telative humidty (default) 0100% rH configurable via Thermokon NOVOSapp or BUS **L2% between 1090% rH (typ. at 21 °C) **Accuracy CO2 **L(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) **Self-calibration **Self-calibration **NDIR (non-dispersive, infrared) **Measuring range VOC 0100 % **Self-calibration **S | Protection | IP30 according to DIN EN 60529 | | | | | | |
| Ambient condition 0+50 °C, max. 85% non-condensing surface mounted on flush-mounting box (Ø=60 mm) , base part can be mounted and wired separately **Temperature** Measuring range temp 0+50 °C Accuracy temperature ±0.5K (typ. at 21 °C) **Humidity (optional) Measuring range humidity (optional configurable) relative humidty (default) 0100% rH configurable via Thermokon NOVOSapp or BUS ±2% between 1090% rH (typ. at 21 °C) **CO2 (optional) Measuring range CO2 ±(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) Self-calibration Sensor NDIR (non-dispersive, infrared) **VOC (optional) Measuring range VOC 0100 % Self-calibration | Cable entry | rear entry, drill mark top | | | | | | |
| Surface mounted on flush-mounting box (Ø=60 mm), base part can be mounted and wired separately **Note that the part of the mounted and wired separately **Note that the mounted on flush-mounting box (Ø=60 mm), base part can be mounted and wired separately **Note that the mounted on flush-mounting box (Ø=60 mm), base part can be mounted and wired separately **Note that the mounted on flush-mounting box (Ø=60 mm), base part can be mounted and wired separately **Occuracy temperature** **Note that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Occuracy temperature** **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Occuracy temperature** **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted and wired separately **Description that the mounting box (Ø=60 mm), base part can be mounted to continue that the mounti | Connection electrical | tool-free mountable spring terminal, max. Ø 0,8 mm | | | | | | |
| Measuring range temp 0+50 °C 4.0curacy temperature ±0.5K (typ. at 21 °C) **Memory temperature **Descriptional configurable of the properties of the p | Ambient condition | 0+50 °C, max. 85% non-condensing | | | | | | |
| Measuring range temp O+50 °C ±0,5K (typ. at 21 °C) ***Humidity (optional) Measuring range humidity (optional) Measuring range humidity (optional configurable) **One in the configurable via Thermokon NOVOSapp or BUS **Accuracy humidity* **CO2 (optional) **Measuring range CO2* **Do2 (optional) **Measuring range CO2* **E(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) **Calibration* **Self-calibration dual channel **Sensor* **NDIR (non-dispersive, infrared) **Measuring range VOC* **One in the configurable via Thermokon NOVOSapp or BUS) **E(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) **Self-calibration dual channel **Sensor* **NDIR (non-dispersive, infrared) **Measuring range VOC* **One in the configurable via Thermokon NOVOSapp or BUS) **E(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) **Self-calibration dual channel **Sensor* **NDIR (non-dispersive, infrared) **Measuring range VOC* **One in the configurable via Thermokon NOVOSapp or BUS) **E(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) **Self-calibration dual channel **Sensor* **NDIR (non-dispersive, infrared) | Mounting | surface mounted on flush-mounting box (Ø=60 mm), base part can be mounted and wired separately | | | | | | |
| ## Humidity (optional) ## Configurable humidity (optional configurable) ## Humidity (optional) ## H | » Temperature | | | | | | | |
| **Measuring range humidity (optional) Measuring range humidity (default) 0100% rH configurable via Thermokon NOVOSapp or BUS **Accuracy humidity** **CO2 (optional) Measuring range CO2 | Measuring range temp | 0+50 °C | | | | | | |
| Measuring range humidity (default) 0100% rH configurable) Accuracy humidity ±2% between 1090% rH (typ. at 21 °C) ***CO2 (optional)** Measuring range CO2 Accuracy CO2 ±(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) Sensor NDIR (non-dispersive, infrared) ***VOC (optional)** Measuring range VOC 0100 % Self-calibration Self-calibration self-calibration self-calibration self-calibration self-calibration | Accuracy temperature | uracy temperature ±0,5K (typ. at 21 °C) | | | | | | |
| (default) 0100% rH configurable) (default) 0100% rH configurable via Thermokon NOVOSapp or BUS 42% between 1090% rH (typ. at 21 °C) CO2 (optional) Measuring range CO2 1.2000 05000 ppm (configurable via Thermokon NOVOSapp or BUS) 4(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) Calibration Sensor NDIR (non-dispersive, infrared) NOVO (optional) Measuring range VOC 0100 % Self-calibration self-calibration | » Humidity (optional) | | | | | | | |
| Accuracy humidity ±2% between 1090% rH (typ. at 21 °C) *** CO2 (optional) Measuring range CO2 02000 05000 ppm (configurable via Thermokon NOVOSapp or BUS) ***±(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) Calibration Sensor NDIR (non-dispersive, infrared) ********** ***************** ****** | Measuring range humidity (optional configurable) | (default) | . , | _ | • | | | |
| CO2 (optional) Measuring range CO2 02000 05000 ppm (configurable via Thermokon NOVOSapp or BUS) ±(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) Calibration Sensor NDIR (non-dispersive, infrared) WOC (optional) Measuring range VOC 0100 % Self-calibration self-calibration self-calibration self-calibration | | configurable via Thermokon NOVOSapp or BUS | | | | | | |
| Measuring range CO2 02000 05000 ppm (configurable via Thermokon NOVOSapp or BUS) ±(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) self-calibration self-calibration dual channel NDIR (non-dispersive, infrared) NOC (optional) Measuring range VOC 0100 % Self-calibration self-calibration | Accuracy humidity | ±2% between 1090% rH (typ. at 21 °C) | | | | | | |
| ±(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) Self-calibration self-calibration dual channel NDIR (non-dispersive, infrared) VOC (optional) Measuring range VOC 0100 % Calibration self-calibration | » CO2 (optional) | | | | | | | |
| Sensor NDIR (non-dispersive, infrared) NOC (optional) Measuring range VOC 0100 % Self-calibration self-calibration | Measuring range CO2 | 02000 05000 ppm (configurable via Thermokon NOVOSapp or BUS) | | | | | | |
| NDIR (non-dispersive, infrared) NOC (optional) Measuring range VOC O100 % Calibration Self-calibration | Accuracy CO2 | ±(50 ppm +3 % of reading), (typ. at 21 °C, 50% rH, 1015 hPa) | | | | | | |
| > VOC (optional) Measuring range VOC 0100 % Calibration self-calibration | Calibration | self-calibration dual channel | | | | | | |
| Measuring range VOC 0100 % Calibration self-calibration | Sensor | NDIR (non-dispersive, infrared) | | | | | | |
| Calibration self-calibration | » VOC (optional) | | | | | | | |
| | Measuring range VOC | 0100 % | | | | | | |
| Sensor VOC sensor (heated metal oxide semiconductor) | Calibration | self-calibration | | | | | | |
| - 55 Series (Hearts Heart Series Series) | Sensor | VOC sensor (heated metal oxide semiconductor) | | | | | | |

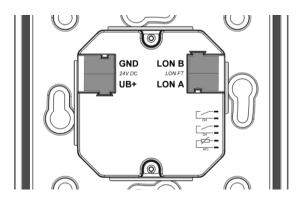
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» CONNECTION PLAN

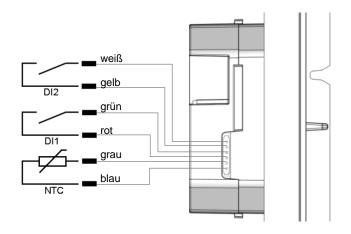
Room operating unit - active LON

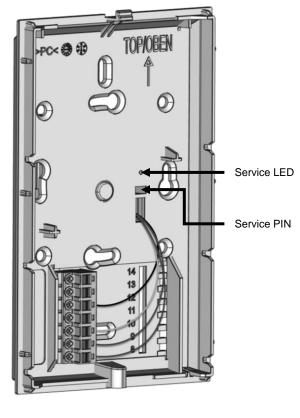
The power supply and the bus line are connected via socket terminals on the rear of the device.

When the service pin is activated, the service pin telegram is transmitted with the LON device identification - the Neuron chip ID.



On the side of the lower part of the housing there is a socket connector for connecting up to 2 digital inputs and an NTC10k. The connection is made via a pre-assembled female connector (included in delivery).



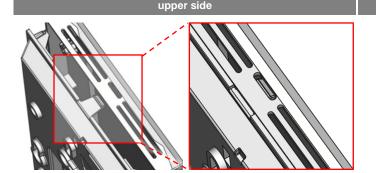


» MOUNTING ADVICES

Please make sure that the device is de-energized if you want to install it!

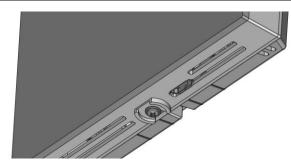
The installation can be performed on the flat wall surface or on a flush-mounted box. A representative place should be selected. Sunshine and draft, e.g. in the installation tube should be avoided, so that the measurement result is not falsified. Seal the end of the installation tube.

- For wiring, the upper part of the device must be removed from the base plate. Base plate and upper part are detachably connected to each other by means of locking lugs.
- The mounting of the base plate on the flat wall surface is done with rawplugs and screws.
- Finally, the device is attached to the base plate and fixed with the screw.



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

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



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» FUNCTION DESCRIPTION - HOMESCREEN THANOS EVO

Favorites button

circles

Light, blind circles or complete

submenu can be placed on the

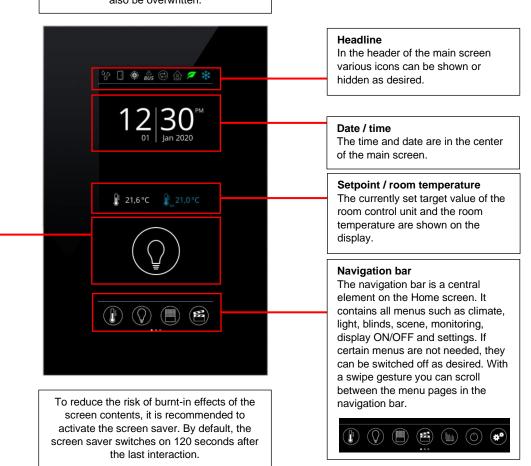
home screen as a favourites button

that is quickly accessible. Up to 4 favourite buttons are possible.

Example below: 4 different Light

Home screen

The display on the main screen of the thanos EVO room control unit can be freely parameterised. All icons and notifications can be switched on and off. Set point can also be overwritten.



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» CONFIGURATION AND COMMISSIONING

A plug-in for the LonMaker® integration tool is available for configuring and commissioning the room operating panel. To use it, install the plug-in and then register it for the respective network.



You can download the setup for the installation under the following link:

https://thermokon.de/direct/files/novos-thanos-evo-lon-plugin.zip

Specification LON:

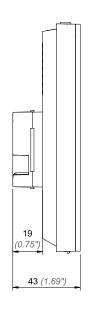
LON-Interface TP/FT-10

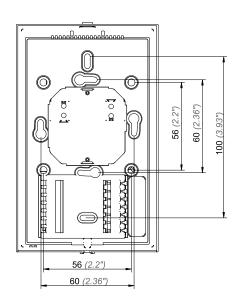
A detailed description of the LON variables can be found in our download center:

 $\to \underline{\text{Download}}$

» DIMENSIONS IN MM (IN.)







* Thanos Evo Design Dimensions

» ACCESSORIES (OPTIONAL)

Rawlplugs and screws (2 pcs. each)
Bluetooth dongle

PSU-UP24 – flush mount power supply 24 V (AC Input: $100..240 \text{ V} \sim | \text{ DC Output } 24 \text{ V} = 0.5 \text{ A})$

Thermokon USB-Interface

Item No. 102209 Item No. 668262 Item No. 645737 Item No. 597838