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Multifunction Room Operating Unit

Thermokon®
HOME OF SENSOR TECHNOLOGY

Datasheet

Subject to technical alteration
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»APPLICATION

Based on the digitalSTROM architecture, up to 8 different function groups can be displayed with the Thanos. All function groups of the digitalSTROM system are supported by the Thanos. Depending on the configuration, the multifunction device operates as operating panel for illumination control, shading, heating, audio, video, occupancy or app button for example. Beside the 3 main views, every function group owns a separate display section for control. Furthermore, the device can also be used with incoming and outcoming function. The display is additional intended for visualization of alarming, panic or fire as well as climatic events such as rain, wind or hail.

»FUNCTIONS

- Central operation of the functions light, shading, heating, audio, video, coming and going, app button
- Max.3 main views for central operation, up to 8 sub menus for special functions
- Central metal button at the Front (clip) for illumination control
- Integrated room sensor for temperature and humidity
- Optionally in black or white
- dS Ready
- Flush mounting in standard EU box (Ø=55 mm)
- Power supply 230 V
- No additional control, bus line or radio connection required

»NOTES ON DISPOSAL

As a component of a large-scale fixed installation, Thermokon products are intended to be used permanently as part of a building or a structure at a pre-defined and dedicated location, hence the Waste Electrical and Electronic Act (WEEE) is not applicable. However, most of the products may contain valuable materials that should be recycled and not disposed of as domestic waste. Please note the relevant regulations for local disposal.

» 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.

CAUTION! Risk of electric shock due to live components within the enclosure, especially devices with mains voltage supply (usually between 90..265 V).

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

Follow the planning and installation instructions in the digitalSTROM installation manual for the installation and initial operation.

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

Temperature sensors with electronic components always have a dissipative power, which affects the temperature measurement of the ambient air. This dissipative power has to be considered when measuring temperature. If a re-calibration should become necessary later directly on the sensor, this can be done by means of the configuration interface of the digitalStrom Server.

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

» REMARKS TO ROOM SENSORS

Location and Accuracy of Room Sensors

The room sensor should be mounted in a suitable location for measuring accurate room temperature. The accuracy of the temperature measurement also depends directly on the temperature dynamics of the wall. It is important, that the back plate is completely flush to the wall so that the circulation of air occurs through the vents in the cover. Otherwise, deviations in temperature measurement will occur due to uncontrolled air circulation. Also the temperature sensor should not be covered by furniture or similar devices. Mounting next to doors (due to draught) or windows (due to colder outside wall) should be avoided.

The temperature dynamics of the wall will influence the temperature measurement. Various wall types (brick, concrete, dividing and hollow brickwork) all have different behaviours with regards to thermal variations.

Surface and Flush Mounting

The temperature dynamics of the wall influence the measurement result of the sensor. Various wall types (brick, concrete, dividing and hollow brickwork) have different behaviours with regard to thermal variations. A solid concrete wall responds to thermal fluctuations within a room in a much slower way than a light-weight structure wall. Room temperature sensors installed in flush boxes have a longer response time to thermal variations. In extreme cases they detect the radiant heat of the wall even if the air temperature in the room is lower for example. The quicker the dynamics of the wall (temperature acceptance of the wall) or the longer the selected inquiry interval of the temperature sensor is the smaller the deviations limited in time are.

» PRODUCT TESTING AND CERTIFICATION

Declaration of conformity

The declaration of conformity of the products can be found on our website https://www.thermokon.de/.

»TECHNICAL DATA

Measuring values	temperature, humidity
Network technology	digitalSTROM
Power supply	230 V ~ (±10%)
Power consumption	typ. 3 W / max. 0,04 A
Measuring range temp	0..+40 °C
Measuring range humidity	0..100% rH non-condensing
Accuracy temperature	±0,5 K (typ. at 21 °C)
Accuracy humidity	±3% between 20..80% rH (typ. at 21 °C)
Control functions	light, shading, heating, audio, video, coming and going, app button
Clip	anodized aluminium
Functions	configurable via software configuration
Display	3,5" TFT, 320x240 pixel, 262.144 colours, capacitive touch-technology, showing room temperature, set point, humidity, outdoor temperature, operation mode, occupancy
Colour	white or black
Enclosure	PC and glass
Protection	IP20 according to EN 60529
Connection electrical	plug-in terminal, max. 2,5 mm²
Ambient condition	0..+40 °C, max. 85% rH non-condensing
Weight	300 g
Mounting	flush mounted in standard EU box (Ø=60 mm)

»MOUNTING ADVICES

With the integrated digitalSTROM powerline communication protocol the device can be installed anywhere in the room, wherever digitalSTROM is available.

The device must be installed at a suitable installation location representing the room temperature so that the measurement result is not distorted.

The device is installed on a wall above a device or wall outlet box of the relevant power circuit. The flush-mounting box must be completely closed right up to the wall so that the air circulation only takes place through the openings of the housing cover. Furthermore, installation near doors (presence of draughts) or windows (cold exterior wall) should be avoided and the device should not be covered by furniture etc. or be exposed to direct sunlight. Otherwise, measurement deviations may occur.

The influence of the installation location on the temperature measurement may have to be compensated for by the offset of the device if necessary.

The device is supplied in operational state. The device is installed on the flat wall surface by means of screws (accessories). The upper part of the housing must be detached from the base plate in order to carry out the wiring. After the electrical connection has been established and the power switched on, the device is automatically registered at the digitalSTROM meter in the electric circuit distributor. The device is then immediately ready for operation, begins with the recording of the room temperature and humidity and registers these in the digitalSTROM system.
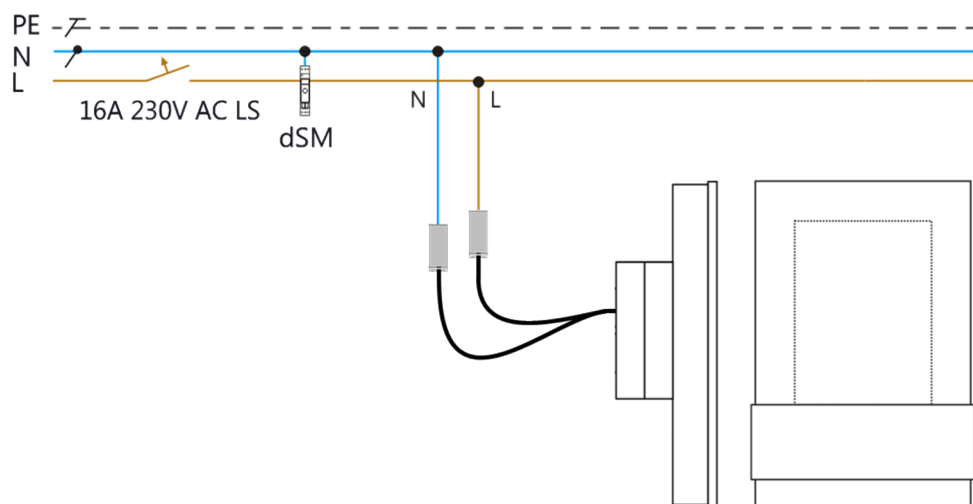
After the electrical connection has been made and the power switched ON, the device is automatically registered with the digitalSTROM meter in the power distribution panel. The device is then immediately ready for operation and can be controlled via digitalSTROM commands.

To use the full range of functions of the product, a system update must be carried out. See digitalSTROM installation manual.

To use the entire range of functions, the installation of the Thanos APP on the digitalSTROM server is required. Further information on the use of the device is provided by the APP.
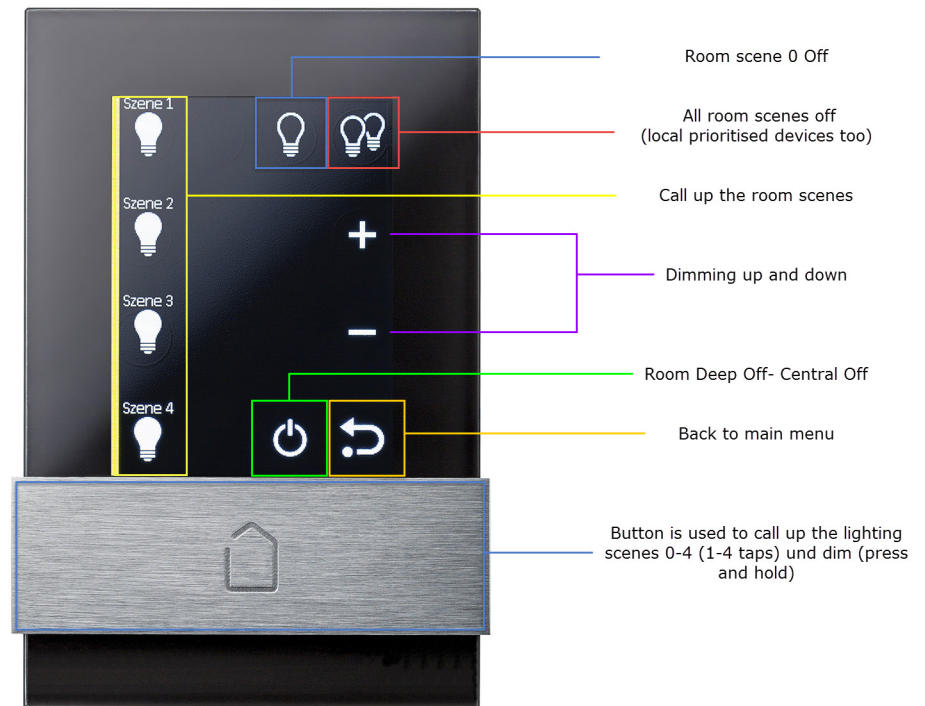
» CONNECTION PLAN

» FUNCTION DESCRIPTION

Main menu

To open the Favourites

Bar visualization of the current groupcolor of the Submenue

Actual temperature of the room

Actual humidity of the room

To open the Submenue for scene control for the different groups

Button is used to call the lighting scenes 0-4 (1-4 taps) und dim (press and hold)

Outdoor temperature (via cloud data or local sensor)

Call up occupied/unoccupied for the appartment

Actual set point temperature and regulatory state: orange - heating, blue - cooling, white - no action

Status display (hail active, fire, panic, alarm)

Next page (max. 3 pages)

Sub-menu

Room scene 0 Off

All room scenes off
(local prioritised devices too)

Call up the room scenes

Dimming up and down

Room Deep Off- Central Off

Back to main menu

Button is used to call up the lighting
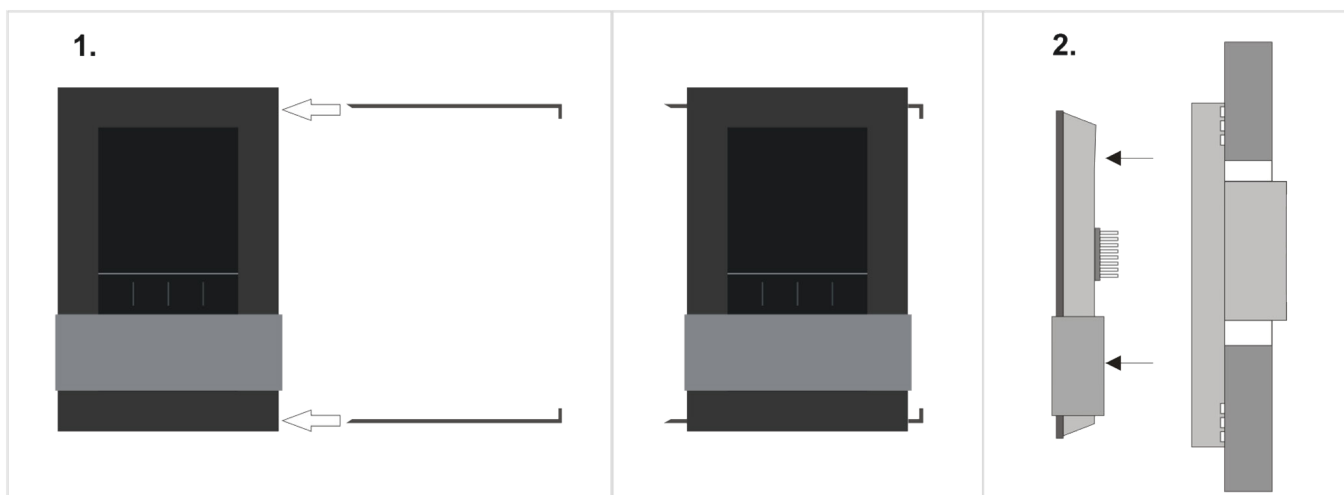scenes 0-4 (1-4 taps) und dim (press
and hold)

» MOUNTING DEVICE

1. Place wall unit.
2. Mount wall unit with countersunk screws.
3. Insert operating unit carefully into the wall unit and click it in.

1.   **2.**   **3.**
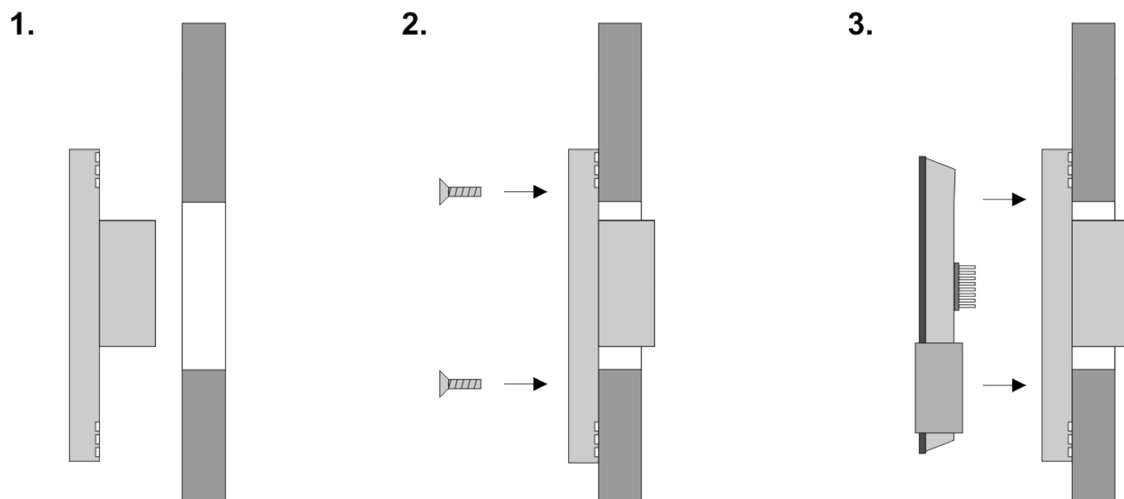
» REMOVE OPERATING UNIT

1. Insert extraction tools into the available slots.
2. Take the operating unit at the edges and remove it carefully from the wall-unit

» DIMENSIONS (MM)