

DESEO KNX

Installation Manual

basalte

Safety instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Failure to observe these instructions might damage the device.

The device may only be installed and connected by professional electricians.

All relevant rules and regulations valid in the country of use, as well as KNX guidelines, apply.

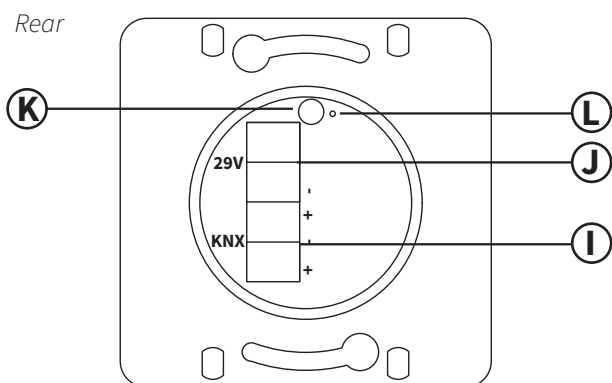
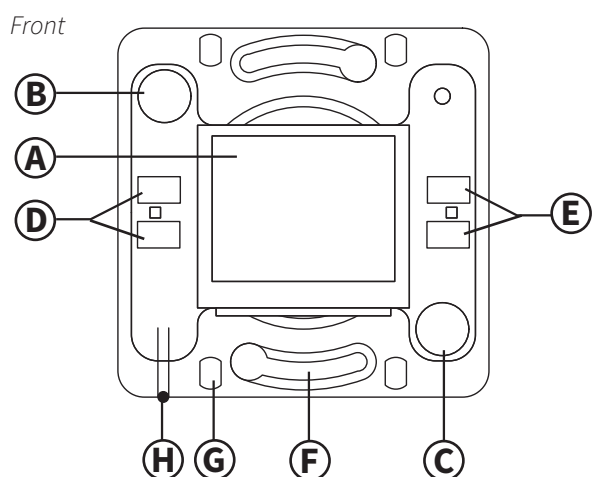
Description

The Deseo room controller allows the operation of all functions within a room. Deseo combines touch-sensitive technology with a 1.7" OLED display. The 4 touch-sensitive touchsensors allow you to navigate through all functions.

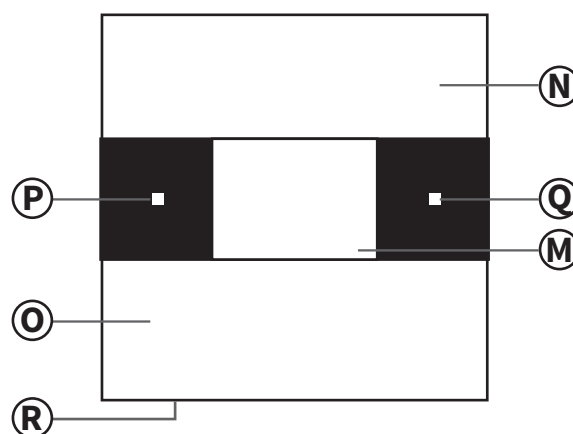
Light, scenes, blinds, heating and cooling, ventilation and even the multiroom audio system can be controlled by Deseo. By touching the upper and lower sensor at the same time the multi-touch will be activated and a welcome or goodbye scene can be triggered.

Components

Deseo KNX
Model No. 300-02



Deseo front cover
Model No. 301-xx
(Not included)



- A 1,7" OLED-display
- B Touch sensor up
- C Touch sensor down
- D Touch sensor left
- E Touch sensor right
- F Opening to screw the device into the backbox
- G Guide for the Deseo front cover
- H Temperature sensor
- I KNX connector
- J External power supply
- K Programming button
- L Programming LED
- M Display
- N Touch sensor up
- O Touch sensor down
- P Touch sensor left
- Q Touch sensor right
- R Opening temperature sensor

Important advice



- Avoid obstacles which might obstruct the proper mounting of the cover on the switch, such as round headed screws, plastering or textured wall paint.
- Installing Deseo on a metal or a mirrored surface might cause the device to not function properly.
- The minimum gap between 2 Deseos must be at least 2 cm, preferably 4 cm.
- Do not install any device nearby that might cause interference such as fluorescent lights or RF devices.
- Never connect the device to 230V or in the vicinity of it. Make sure to maintain the distance specified in the applicable standards and regulations.
- Not mounting the Deseo front cover correctly may result in a poor sensitivity of the touch sensors. Please make sure to always push the front cover onto the Deseo switch as far as possible.

Power requirement

Deseo needs an additional power supply between 18 and 36V DC, typically 24V. In order to have a good capacitive detection, a power supply should be used with a good connection to the electrical earth, preferably with a metal housing. The power supply needs to be connected with the 29V connector.

Installation and commissioning

- Use a standard European back box with screws. The distance between the screws needs to be 60mm. The depth required is 32mm. Additional depth should be reserved for connecting the device.
- When mounting Deseo use screws with countersunk, flat head and do not apply too much force as this might deform the plastic housing.
- Connect the additional power supply according to the markings on Deseo.
- Connect the bus line according to the KNX standard.
- Load the physical address into the Deseo switch from ETS via the KNX bus.
- Commission the Deseo switch in ETS and load the configuration into the device.

Note

The Deseo can also be placed in programming mode by keeping the left sensor touched and tapping the right sensor 4 times.

Calibration

In order to function properly, the sensors of Deseo need to calibrate to the environment. This calibration can start when bus and additional power are applied, when a cover is installed, when the sensor detects a touch for more than 20 seconds.

When calibration is forced, the device will reboot. Do not touch the front cover while rebooting because this can lead to bad calibration and insensitive sensors!

Operating

Deseo has 4 touch-sensitive areas. The upper and lower metal parts and the left and right surfaces next to the display.

The metal parts are completely touch-sensitive, no matter where they are touched. The left and right sensors have a white LED. The LEDs light up when the touch sensors are enabled. Touching the upper and lower metal parts simultaneously will trigger the multi-touch event.

Temperature sensor

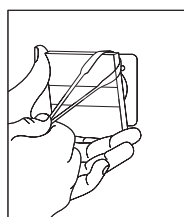
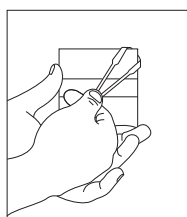
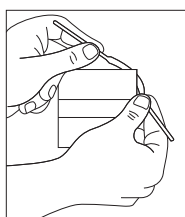
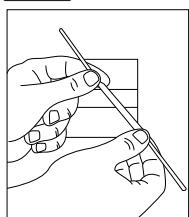
Deseo has an integrated temperature sensor. The measurement takes into account the added heat dissipation of the display and does a compensation. Because of this, the temperature measurement at start-up can be lower than expected. Please consider a delay of about 20 minutes until you have the correct value. After 20 minutes you can compare the measured value with a measurement in the room with a digital temperature sensor to get the compensation value.

How to remove the Deseo front cover

We provide the 'tube' tool to easily remove the Deseo front cover.



Do not use a screwdriver or other tools, as these might damage the cover.



Technical Data

Current consumption KNX bus: 10mA

Current from the additional power supply: 30mA by normal use on 24V DC (up to 60mA at start-up for up to 300ms)

Power rating: 1W

Inputs: 4 capacitive touch sensors and 1 internal temperature sensor

Outputs: 1 OLED display

Ambient temperature:

Operation: -5°C to 45°C

Storage: -15°C to 55°C

Transport: -15°C to 55°C

Environment: the device is designed for use up to 2000m above sea level (MSL).

Max. humidity: 93% relative humidity,
no moisture condensation

Protection class: II

Type of protection: IP 20

Certification: CE

Basalte is a registered trademark of Basalte bvba.
Multi-touch is a patented technology of Basalte bvba.
Deseo is a registered design of Basalte bvba.
KNX is a registered trademark of the KNX organisation.

