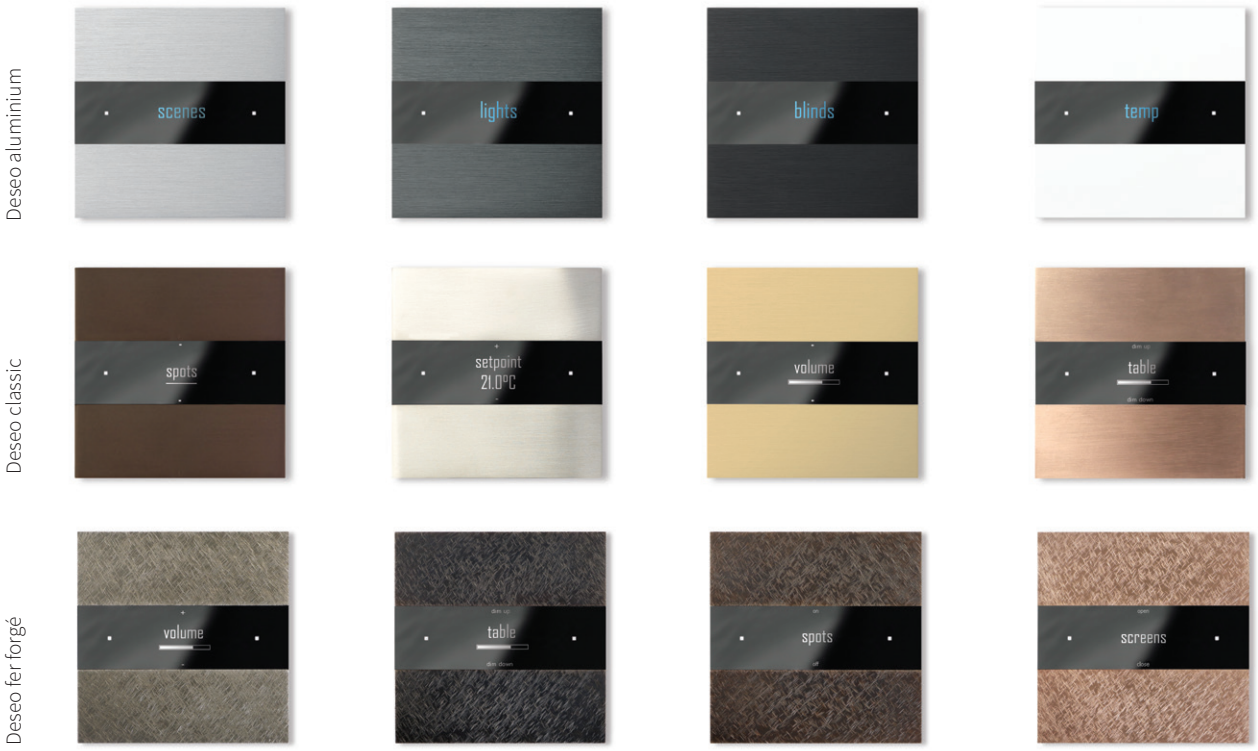
DESEO KNX
Product information

basalte

The **Deseo roomcontroller** allows the operation of all functions within a room in a very simple and intuitive way. Deseo combines the Basalte innovative touch sensitive technology with an 1,7" multicolour OLED display in an attractive an innovative design.



- Functionality -

Deseo integrates the Basalte multitouch technology to control a general scene in a room. This way it is not needed to scroll through the menus to switch on and off the lights in the room.

The Deseo only displays one function at a time which greatly improves the simplicity of control and allows the control of following functions:

- 1 multitouch object for general on/off in a room. Can control one scene object or one 1-bit object.
- 2 scene objects, for each object up to 6 scenes can be defined or a total of 12 scenes. The scenes can be called or saved.
- 12 light objects which can be used for switching or dimming. (for instance 4 switched lights and 8 dimmed lights).
- 12 motor objects for curtains, blinds or shutters.
- 1 fully functional thermostat with heating and cooling control, 1-bit 2-point control, 1-bit PWM continuous control or 1 byte continuous control.
- 1 ventilation object with up to 3 speeds.
- 1 music zone with up to 4 sources, for each source up to 6 presets can be selected.

Deseo can also display up to 6 information objects that can be 1 bit enumeration, 1 byte or 2 byte values or 14 byte text fields.

Deseo also features an integrated temperature sensor to be used in combination with the internal thermostat. The internal thermostat can also use an external temperature sensor (from for instance a Sentido).

All the text fields of Deseo can be freely modified in the ETS parameters.
Programming can be done using ETS3.0f or higher using a standard database file, no plugins are required.

- Menu structure -

Deseo uses three levels of menus:
- the startup screen which shows for instance the current time and room temperature
- the main menus (for instance, scenes, lights …)
- the objects (for instance a specific scene or light)

The startup scene is shown after it comes out of sleep mode. The display goes into sleep mode after not being touched for a certain time (configurable).

The startup screen can show:
- time + internal temperature
- time + date
- time + 14 byte object
- fixed text + internal temperature
- fixed text + 14 byte object

The startup screen can also be disabled. In this case the first main menu will be shown after wake-up.

Deseo can have the following main menus:
- scene menu 1 with up to 6 different scenes controlling scene object 1
- scene menu 2 with up to 6 different scenes controlling scene object 2
- light menu 1 with up to 6 light objects (switching or dimming) (1-6)
- light menu 2 with up to 6 light objects (switching or dimming) (7-12)
- motor menu 1 with up to 6 motor objects (1-6)
- motor menu 2 with up to 6 motor objects (7-12)
- thermostat menu with a field for:
  - mode (comfort, economy, standby)
  - setpoint
  - fan speed of the ventilation system
- music menu with a field for:
  - source (up to 4 sources and off)
  - preset (up to 6 presets for each source)
  - volume
  - now playing (can show 14 byte text fields of RDS or current artist and track), can also show next track/previous track control
- info menu with up to 6 different objects. Each object can be a 1 bit enumeration, 1 byte or 2 byte value or a 14 byte text field.

Each main menu can be enabled or disabled in ETS.

All text fields of the main menus and the objects can be configured in ETS.
The text field for the main menus consists of maximum 9 characters, the maximum for the objects is 10 characters.

The startup screen and the main menu are shown in blue while the objects are in white.

Deseo retro

- Navigation -

The 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.

When the display is asleep, it can wake up when either the upper or the lower touch sensor is touched.

The display can also wake up by using the 'wake' communication object and can be disabled for cleaning using the 'cleaning' communication object.

If multitouch is enabled, then simultaneously touching the upper and lower surface will be detected as a multitouch.

When the display starts up it shows the startup screen. In this screen the left and right sensors are disabled.
The main menus can be accessed by touching up or down.

Continuous touching up or down scrolls through all the main menus.

Touching the left sensor will return to the startup menu.
Touching the right sensor will enter the main menu and will show the first object of the main menu.
Continuous touching right will scroll through all the objects.
Touching left will return to the main menus.

When an object is displayed it can be controlled by touching up or down.

When the info menu is used, the info objects can be displayed using the 'info page pointer' object. This makes it possible to show important information in case of an alarm.

The display will automatically return to the startup screen after 1 minute. The display will go back to sleep after a timeout configured by the 'display timeout' parameter.

Next to the traditional structure, there is also a new horizontal menu structure. In this simplified structure, all levels stand on one horizontal line. In this way, it is sufficient to touch Deseo on the left or right side to scroll through all functions. This new horizontal structure fits perfectly in rooms where less functionalities are needed.

- Temperature control -

Deseo gives the possibility to use its internal thermostat or to use an external logic.

In the case of an external logic, Deseo only controls the mode and the setpoint objects that are sent to an external logic. Together with the measured temperature value this logic can decide to control the heating or cooling system.

The internal thermostat can be used for heating, cooling, heating/cooling (manual control) and heating/cooling (automatic control).

Heating and cooling parameters can be set independently.

Control can be 2-point, continuous PWM and continuous 1 byte.

For temperature measurement, the internal sensor can be used, an external sensor can be used or a combination of the two can be calculated.

- Technical specifications -

name / productnumber	**deseo KNX /** 300-02
front cover	deseo
interface	KNX integrated BCU
display	1.7” Oled
multi-touch	yes
temperature sensor	integrated
thermostat logic	integrated
power supply	15 - 30V DC separate from KNX bus
power consumption	1W
dimensions	70mm x 70mm x 30mm
backbox	European standard box with screws 60mm
certification	CE

- Multitouch -

Deseo also features a multitouch function.
(Protected under European patent application)

By touching more than one touch surface, a general function is called. This general function can be used to control a scene in the room.

With the use of up to 8 feedback objects, Deseo can detect if the lights in the room are on or off. When all the lights are off, Deseo will call for the general scene. When one of the lights is on, Deseo will send a ‘room off’ command.

This feature enables the user to simply turn on and off lights in the room without having to navigate through the menu structure.

- Characters -

Deseo can display characters in accordance with ISO-8859-1.

The following languages are thus supported:

Afrikaans, Albanian, Basque, Danish, German, English, Finnish, French, Italian, Catalan, Dutch, Norwegian, Bokmål, Nynorsk, Portuguese, Raeto-Romanic, Scottish Gaelic, Swedish, Spanish, Swahili.