DESEO Cresnet
Installation Manual

basalte

Safety instructions

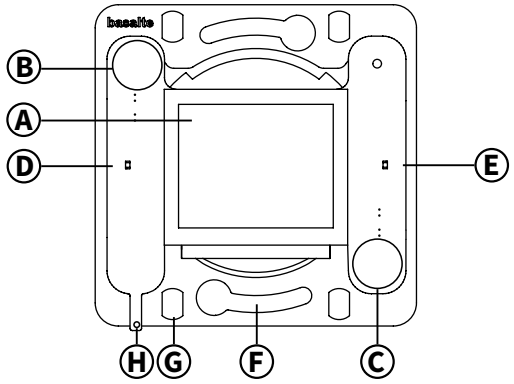
Before operating the unit, please read this manual thoroughly and retain it for future reference. Failure to observe these instructions might damage the device. The device may only be installed and connected by professional electricians.
All relevant rules and regulations valid in the country of use, as well as Crestron® guidelines, apply.

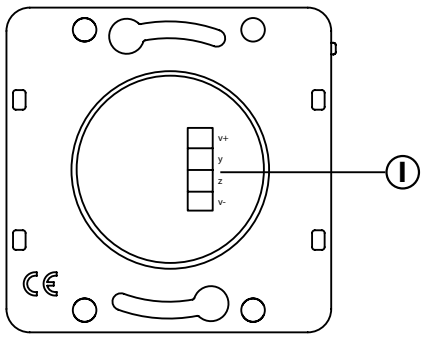
Description

The Deseo keypad is a HVAC control panel that can be part of a Crestron® home automation system.
The Deseo Cresnet® can be combined with all Deseo HVAC cover plates.
The Deseo keypad is a standard Cresnet® device, which can be programmed in SIMPL Windows using the Basalte Deseo Configuration Module.
With the OLED user interface you can adjust the set point, fan speed and temperature modes. Deseo also has an integrated temperature and humidity sensor.
Additional features are the short and long multitouch to turn the lights on and off, using a welcome and goodbye scene.

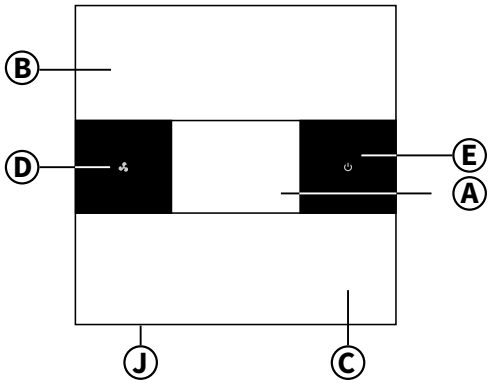
Components

Deseo Cresnet
Model No. 0310-02





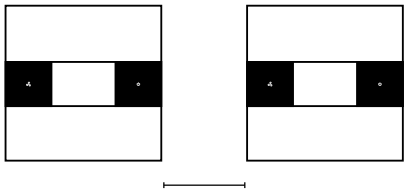
Deseo front cover
Model No. 0311-xx *(not included)*



- **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 wall box
- **G** Guide for the Deseo front cover
- **H** Temperature/Humidity sensor
- **I** Cresnet® connector
- **J** Opening for temperature/humidity sensor

Important advice

- Never connect the device to 110 V / 230 V.
- Avoid obstacles which might obstruct the proper mounting of the cover to the Deseo, such as round headed screws, plastering or textured wall paint.
- Installing Deseo on a metal wall or a mirror surface might cause the device to not function properly.
- The minimum gap between 2 Deseo controllers must be at least 4 cm (1.6 in).
- Do not install any device nearby that might cause interference such as fluorescent lights or RF devices.
- Not mounting the Deseo front cover correctly may result in a poor sensitivity of the touch sensors. Please make sure to always push the ront cover onto the Deseo switch as far as possible.



minimum gap = 4 cm (1.6")

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Installation and commisioning

- 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 Deseo to Cresnet® bus according the Crestron® installation guidelines.
- Please refer to the software manual to configure the Deseo Cresnet®.
- Only install the Deseo front cover while the Deseo is not powered.
- Push the Deseo front cover firmly onto the Deseo switch. The front cover is fixed to the switch by the clipsing system. Make sure the cover is mounted using all 4 clips.
- Power the device once the front cover is mounted. Calibration will be initiated.

Calibration

In order to function properly, the sensors of Deseo Cresnet® need to calibrate to the environment. This calibration can start when bus power is applied, when a cover is installed, when the sensors 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.

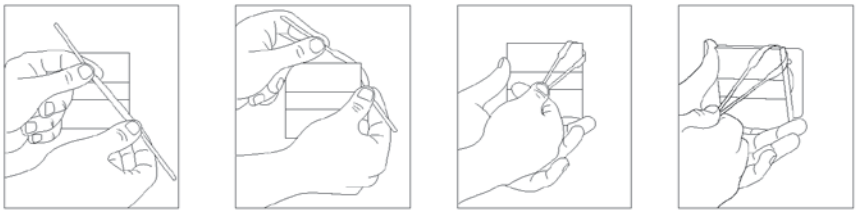
Humidity sensor

Deseo also has an integrated humidity sensor to report the relative humidity on the Cresnet® bus. A humidity compensation is available to anticipate on any environmental factors that might disturb the humidity measurement.

How to remove 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

Cresnet power usage: 1W (0.05 Amps at 24 Volts DC)
(Up to 3 Watt at start-up for up to 300ms)
Inputs: 4 capacitive touch sensors, 1 internal temperature sensor and 1 internal humidity 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 leverl (MSL).

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

Protection class: II
Type of protection: IP 20
Certification: CE

CRESTRON

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