

# LCN | Key Sensors

# LCN-GT2 | LCN-GTS2

## Glass touch keypad with two capacitive keys

The LCN-GT2 is a sensor touch panel connected via the I-Port of any LCN module of version 1403 or higher (March 2010). It is designed for mounting in a flush mounted wall-box and can be fixed firmly on the wall by means of a special mounting plate.

### Description

The capacitive sensor surfaces are positioned behind a 5 mm (3mm) thick glass panel. Slight contact with the surface is sufficient to trigger various functions. The intelligent control system distinguishes between tapping, prolonged contact and releasing of the keys, with the result that three commands (Short, Hold & Release) are possible per key. A status LED which is integrated into every sensor reports on the current status of any actuator or sensor in the building with 4 indicator modes. The touch panel sensor pads can be labelled individually and easily changed if necessary. Blue background illumination on the sensors (optional) allows the LCN-GT(S)2 to be used comfortably with low room lighting. The individual labelling of the sensor surfaces can be transferred to paper/film and placed behind the glass panel. This labelling can be replaced at any time, which means changes to the key assignment are no problem.

### Application fields

The LCN-GT2 is for mounting in interior dry rooms. It can be used for every switch, regulator and operational task within the LCN bus system. It is especially suited to the design orientated user who demands high performance and comfort. Up to four LCN-GT(S)2 can be operated via the same module in parallel.

### Scope of delivery

- LCN-GT(S)2 in black or white, other colours available on demand
- Mounting plate with adapter for connecting
- Printing foil
- Installation guide

#### Note:

Attention: Connect without power!

During installation, the sensors' electronics can be destroyed by the lighting power supply if the cable comes in contact with the wrong terminal. The power supply LCN-NUI is to be switched off before connecting the LCN-GT(S)2.



### Function:

The sensor surfaces of the LCN-GT(S)2 react capacitively to the touching of the glass front. According to how long the glass panel is being touched, a corresponding LCN-command Hit, Hold or Release is sent. The command is sent via the mounting adapter to the I-port of an LCN module. The two integrated status LEDs in the sensors are individually controlled via the I-Port and the LCN-PRO configured On, Off, Flashing, Flickering. For the Corona® Light and the background illumination of the sensors an external power supply is required (LCN-NUI, not included in the scope of delivery). The use of an external power supply unit enhances the intensity of the LEDs.

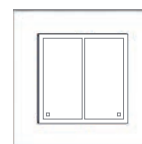
### Models:

#### LCN-GT2

Size: 90 x 90 mm

Colour: white  
black  
champagne

LCN-GT2W  
LCN-GT2B  
LCN-GT2C



#### LCN-GTS2

Size: 75 x 75 mm

Colour: white  
black  
champagne

LCN-GTS2W  
LCN-GTS2B  
LCN-GTS2C



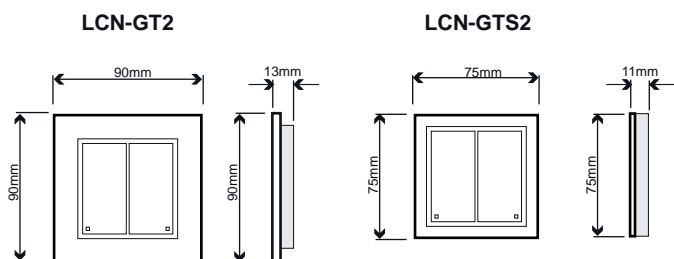
# LCN-GT2 | LCN-GTS2

Glass touch keypad with two capacitive keys

- Two capacitive sensor surfaces behind glass
- Two status LED's
- Including white Corona surrounding light
- Including key background light
- Including designing the keys with inlays
- For operating on the I-Port

## Dimensions:

LCN-GT2 (H x W x D):	90 x 90 x 13 mm (5 mm glass thickness)
LCN-GTS2 (bevelled edges):	75 x 75 x 11 mm (3 mm glass thickness)
Assembly:	With mounting plate for a flush mounted wall-box.
Frame:	Available in white, black and champagne, special customized colours on request.



## Technical data

### Connection

Power supply:	5 VDC stabilised, via LCN-NUI
LCN-Connection:	Via adapter socket to the I-Port of an LCN module starting with firmware 140719

### Keys:

Type:	2 capacitive sensor surfaces with status LED behind glass
Function:	Hit, Hold, Release

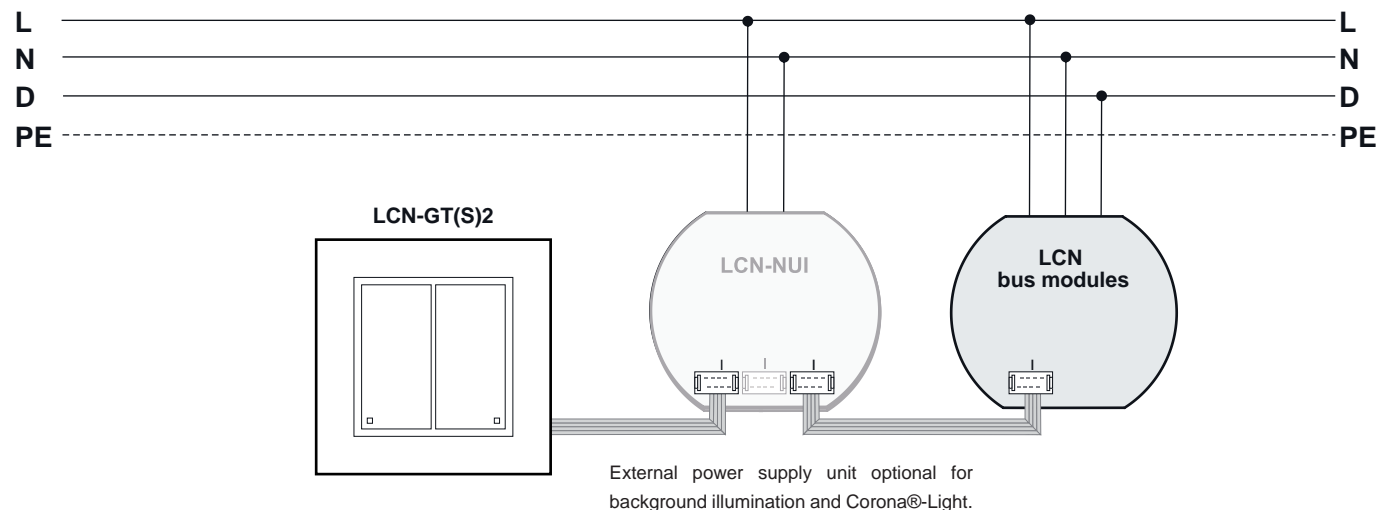
### LEDs:

Status-LED's:	2 red LED's, command controlled
Function:	On, Off, Flashing, Flickering
Background illuminations:	Blue LED's, one for each sensor surface - off/on
Function:	white Corona® LEDs individually adjustable
Corona®-Light:	On, Off, Flashing, Flickering

### General details:

Operating temperature:	-10 to 40 °C
Humidity:	max. 80% rel., non condensing
Environmental conditions:	Stationary installation according to VDE 632, VDE 637
Degree of protection:	IP 20

## Circuit diagram



# LCN-GT6 | LCN-GTS6

Glass touch keypad with six keys and six LEDs

The LCN-GT(S)6 is a sensor touch panel. It is connected to the mounting plate and attached to a flush mounted wall box firmly fixed with two sliding hooks. It is connected to the T-Port of any LCN module as of version 1706. The integrated temperature sensor allows the user to control the temperature.

## Description

The six capacitively operated sensor surfaces are arranged behind a 5 mm (3mm) glass front. A light touch of the glass front is all that is needed to trigger the different functions. The intelligent control distinguishes between Hit, Hold and Release, so that three commands are possible for every key.

An LED which is integrated into every sensor reports on the current status of any actuator or sensor in the building with 4 indicator modes. The touch panel sensor pads can be labelled individually and easily changed if necessary. Blue background illumination on the sensors (optional) allows the LCN-GT6 to be used comfortably with low room lighting.

The individual inlays for the LCN-GT(S)6 are printed on foil/membrane or paper and fitted behind the glass front through a small slot. The labelling can be changed at anytime so that changes to the key functions do not create a problem. Easy to understand symbols and templates come delivered with the LCN-GT6.

## Application fields

The LCN-GT(S)6 is for mounting in interior dry rooms. It can be used for every switch, regulator and operational task within the LCN bus system. It is especially suited to the design orientated user who demands high performance and comfort.

## Scope of delivery

- LCN-GT(S)6 in black or white, other colours available on request
- Mounting plate with adapter for connecting
- Printing foil
- Installation instructions

### Note:

Attention: Connect without power !

During installation, the sensor's electronics can be destroyed by the power supply for the lighting when the cable comes in contact with the wrong terminal. The power supply LCN-NUI has to be switched off before connecting the LCN-GT(S)6. For more detailed information please refer to the installation guide.



## Function:

The sensor surfaces of the LCN-GT(S)6 react capacitively to the touching of the glass front. According to how long the glass panel is touched, a corresponding LCN-Command Short, Hold or Release is sent. The command is sent over the mounting plate to the T-Port of an LCN module.

The six integrated status-LEDs in the sensors are individually controlled via the T-Port, and with the LCN-PRO configured as On, Off, Flashing or Flickering. The integrated temperature sensor allows the user to control the temperature. For the optional back lighting is an external power supply (LCN-NUI) required. Not within the scope of delivery. The use of a power supply is also, by bright area lighting useful: because it raises the brightness of all six LEDs of the LCN-GT(S)6.

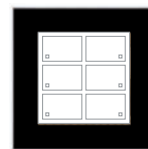
## Models:

### LCN-GT6

Size: 90 x 90 mm

Colour: white  
black  
champagne

LCN-GT6W  
LCN-GT6B  
LCN-GT6C



### LCN-GTS6

Size: 75 x 75 mm

Colour: white  
black  
champagne

LCN-GTS6W  
LCN-GTS6B  
LCN-GTS6C



Further examples of key-mapping variations





# LCN-GT6L

## Glass touch keypad with with six keys and Corona® light

The LCN-GT6L is an elegant sensor keypad with particularly conveniently operable keys, optionally also with slide control function. In addition it has a temperature sensor.

It is mounted and anchored to a lamp outlet box over a mounting plate. It uses the I connection of any LCN-Module. Corona light, key illumination and brighter LEDs are optionally available with the LCN-NUI.

### Description

The LCN-GT6L offers three sensor zones in a new, innovative design. each of which can be parameterized in three function modes.

1. large key area. Thanks to a height of eight cm, large buttons offer particularly convenient operation. Even for people with restricted movement.
2. Two push buttons, this setting is helpful if many functions are to be parameterized. The keys are still very high at just under four cm.
3. the slider is particularly suitable for dimming: By tapping anywhere on the button you can directly adjust the desired brightness.

In addition, two red status LEDs are integrated for each sensor surface. An individual inscription of the sensor surfaces can be transferred to paper or foil and placed behind the glass surface. This inscription can be exchanged at any time, so that changes in the key assignment are no problem. Optionally in operation with the LCN-NUI the LCN-GT6L also offers a Corona light ring for wall illumination and a white key backlight. The individual sensor surfaces are backlit in white. All LEDs, as well as the corona LEDs, can be controlled as required. Thus the LCN-GT6L can be operated comfortably even in low ambient light.

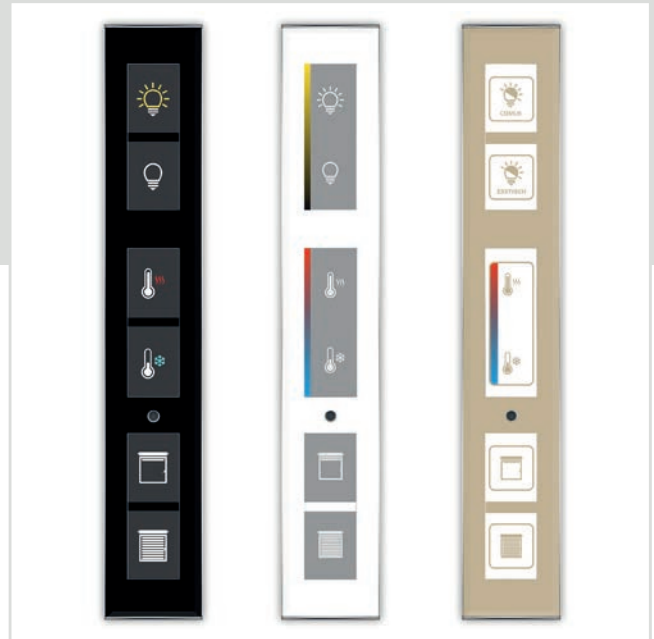
The LCN-GT6L offers an infrared remote control receiver for all LCN handheld transmitters. Further functions can be parameterised via the remote control, up to 32 additional keys when using several handheld transmitters.

### Application fields

The LCN-GT6L is intended for mounting in dry indoor areas. It can be used for all switching, regulation and control tasks in the LCN bus. It is particularly suitable for design-oriented users with the highest demands on function and comfort.

### Scope of delivery:

- LCN-GT6L
- I-Port connection cable
- Mounting plate
- LCN-IV
- LCN-A68/35
- Installation guide

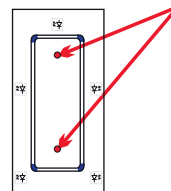


### Function

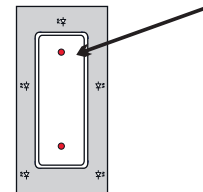
The sensor areas of the LCN-GT6L react capacitively to contact with the glass surface. Depending on the duration of contact a corresponding LCN control command short, long or release is sent.

### Overview status and operation LEDs

#### 1. Status LEDs - RED



#### 2. Key lighting - WHITE



### Models

#### LCN-GT6L

Size: 50 x 300 mm

Colour: white  
black  
champagne

LCN-GT6LW  
LCN-GT6LB  
LCN-GT6LC

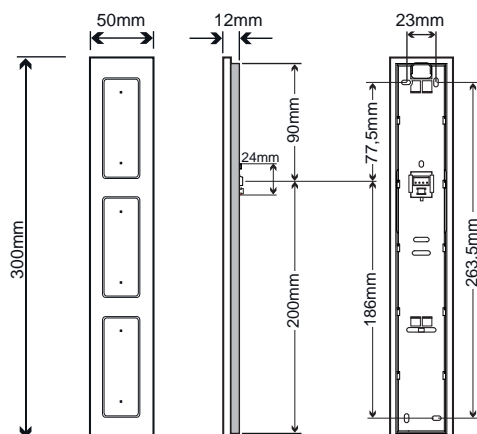
# LCN-GT6L

Glass touch keypad with with six keys and Corona® light

- Six- or threefold button with slider function
- Capacitive sensor surfaces behind 5 mm glass
- Including white corona surrounding light and white Key backlight, optionally with the LCN-NUI
- Integrated IR receiver
- Mounting on a 35 mm lamp outlet box
- Operation on an I connection

## Dimensions:

LCN-GT6L (W x H x D): 50 x 300 x 12 mm  
 Installation: With mounting plate for a flush mounted wall-box.  
 Frame: Available in white, black and champagne, special customized colours on request.



## Technical data

### Connection

Power supply: via LCN module + external supply unit LCN-NUI  
 LCN-Connection: I-Port (from version 140601)

### Keys

Type: 3 keypads for digital labelling with status LED behind glass  
 Function: Short, Hold, Release

### Temperature sensor

Measuring range: -10 bis 40 °C  
 Resolution: 0,1 °C  
 Accuracy: 0,3 °C von 15 °C bis 30 °C

### IR reception

Function: max. 32 keys, access control

### LED's

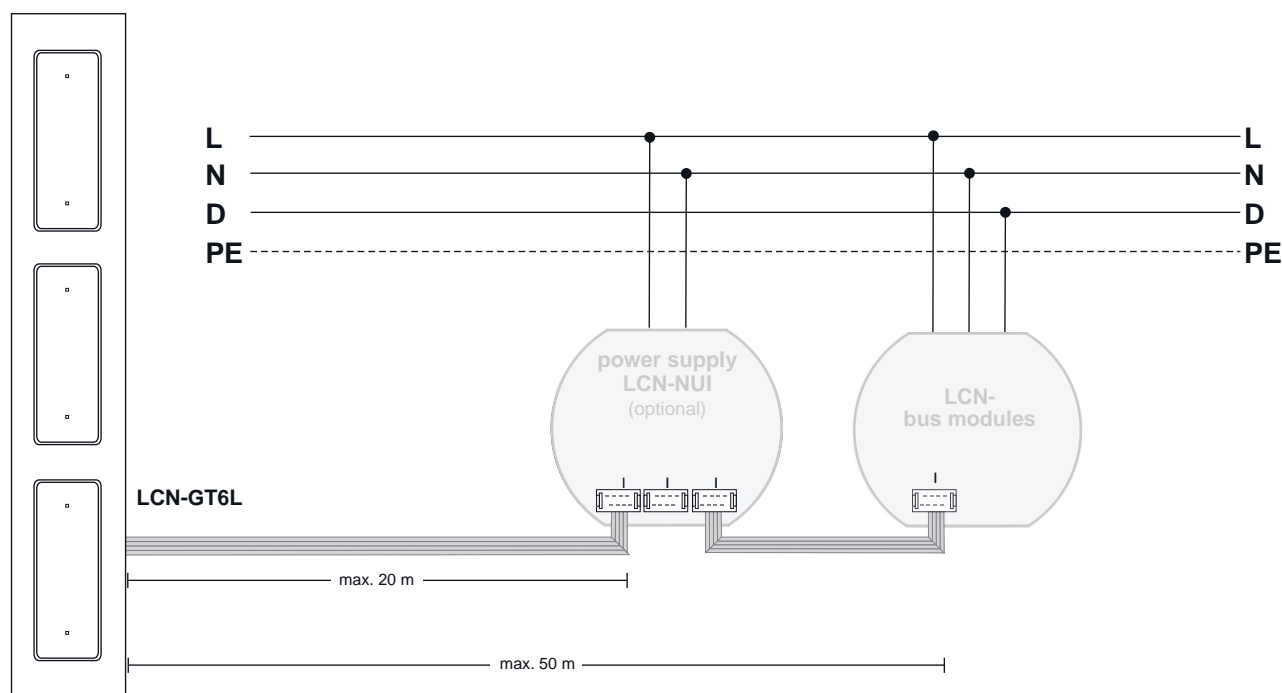
Status-LEDs: 6 red LEDs for display of LCN status messages,  
 Function: OFF/FLASHING/FLICKERING/ON  
 Keys- LEDs: Area light guide for each sensor field, 10% steps: 0-100%

Key Background LEDs: white LED's dimmable  
 Corona-LED: white corona LEDs controllable

### General details:

Operating temperature: -10 to 40 °C  
 Humidity: max. 80% rel., non condensing  
 Environmental conditions: Stationary installation according to VDE 632, VDE 637  
 Degree of protection: IP 20

## Circuit Diagram





# LCN-GT8 | LCN-GTS8

Glass touch keypad with eight keys, bargraph and temperature sensor

The LCN-GT8 is a sensor touch panel with a bargraph display. It is connected to the mounting panel and a deep flush mounted wall-box and firmly fixed with two sliding hooks. It connects to the T-Port of any LCN modules as of version 1706... . The integrated temperature sensor supplies the measured values with a triggering from 0.1 °C, and thanks to its adaptive average calculation, practically noiseless.

## Description

The eight capacitive sensor surfaces are located behind a 5 mm resp. 3 mm glass front. A light touch of the glass front is all that is needed to trigger the different functions. A status LED which is integrated into every six sensors reports on the current status of any actuator or sensor in the building with four indicator modes. @Corona surrounding light with white LEDs, serves as a decorative wall light (LCN-NUI required) and can be switched as a decent orientation light, so that the LCN-GT8 or LCN-GTS8 can also be operated in darkness. An external power supply is required when operating the key background LEDs and the @Corona surrounding light. Please order LCN-NUI separately. The individual inlays for the LCN-GT(S)8 are printed on foil/membrane or paper, and fitted behind the glass front through a small slot. The labelling can be changed at anytime so that changes to the key functions do not create a problem. Easy to understand symbols and templates come delivered with the LCN-GT(S)8.

## Application fields

The LCN-GT8 is for mounting in interior dry rooms. It can be used for every switch, regulator and control function within the LCN bus system. The integrated temperature sensor allows the user to control the temperature. It is especially suited to the design orientated user who demands high performance and comfort.

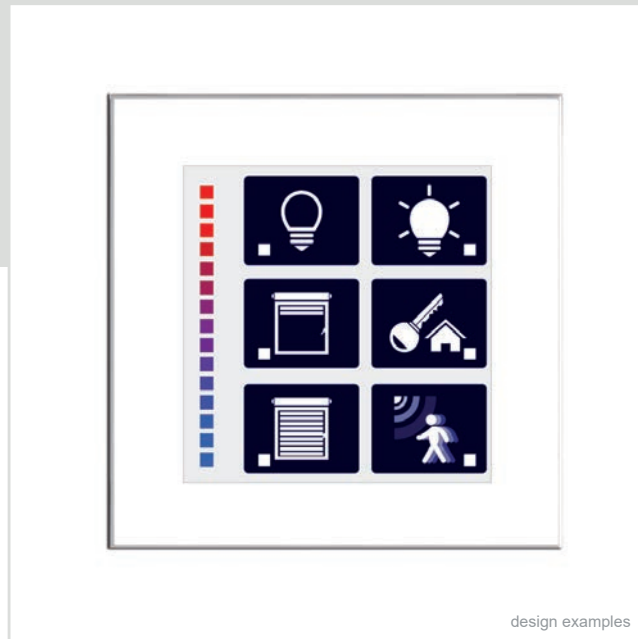
## Scope of delivery

- LCN-GT8
- Mounting plate
- Printing foil
- Installation guide

### Note:

Attention: Connect without power !

The power supply LCN-NUI is to be switched off before connecting the LCN-GT(S)8. For more detailed information please refer to the installation guide.



## Function:

The sensor surfaces of the LCN-GT(S)8 react capacitively to the glass front being touched. According to how long the glass panel is touched, a corresponding LCN command Short, Hold and Release is sent. The command is sent via the mounting panel to the T-Port of an LCN module. The eight status LED's integrated in the sensors are individually controlled via the T-Port and configured via the LCN-PRO, On, Off, Flashing, Flickering.

The 15 digit bargraph display can show analogue values in an adjustable value area. Flashing mode helps to illustrate the difference between ACTUAL and DESIRED values. For the Corona® light and the background illumination of the sensors an external power supply is needed (LCN-NUI, not included in the scope of delivery). The use of an external power supply unit enhances the intensity of the LED's.

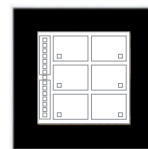
## Models:

### LCN-GT8

Size: 90 x 90 mm

Colour: white  
black  
champagne

LCN-GT8W  
LCN-GT8B  
LCN-GT8C

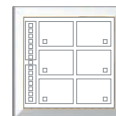


### LCN-GTS8

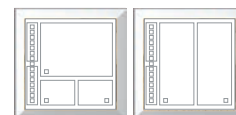
Size: 75 x 75 mm

Colour: white  
black  
champagne

LCN-GTS8W  
LCN-GTS8B  
LCN-GTS8C



Further examples of key-mapping variations



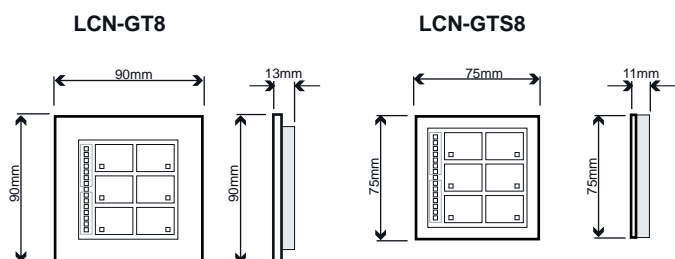
# LCN-GT8 | LCN-GTS8

Glass touch keypad with eight keys, bargraph and temperature sensor

- Eight capacitive sensor surfaces behind glass
- Six status LED's & bargraph
- Including white Corona surrounding light
- Including key background light
- Including integrated temperature sensor
- Including designing the keys with inlays
- For operating on the T-Port

## Dimensions:

LCN-GT8 (H x W x D):	90 x 90 x 13 mm (5 mm glass thickness)
LCN-GTS8 (bevelled edges):	75 x 75 x 11 mm (3 mm glass thickness)
Assembly:	With mounting plate for a flush mounted wall-box.
Frame:	Available in white, black and champagne, special customized colours on request.



## Technical data

### Connection

Power supply:	via the LCN module, background illumination (optional) via external power supply unit LCN-NUI
LCN connection:	T-Port

### Keys:

Type:	8 capacitive sensor areas behind 5 mm glass (6 keys with Status-LED)
Function:	Short, Hold, Release
Labelling:	Labelling membrane/foil

### LEDs:

Status-LED's:	6 red LED's, command controlled
Function:	On/Off/Flashing/Flickering
Background illumination:	white surface illumination
Corona® LEDs:	white Corona® light for decorative accent lighting
Analog value-display:	15 LED's arranged as bargraph, desired/actual value display

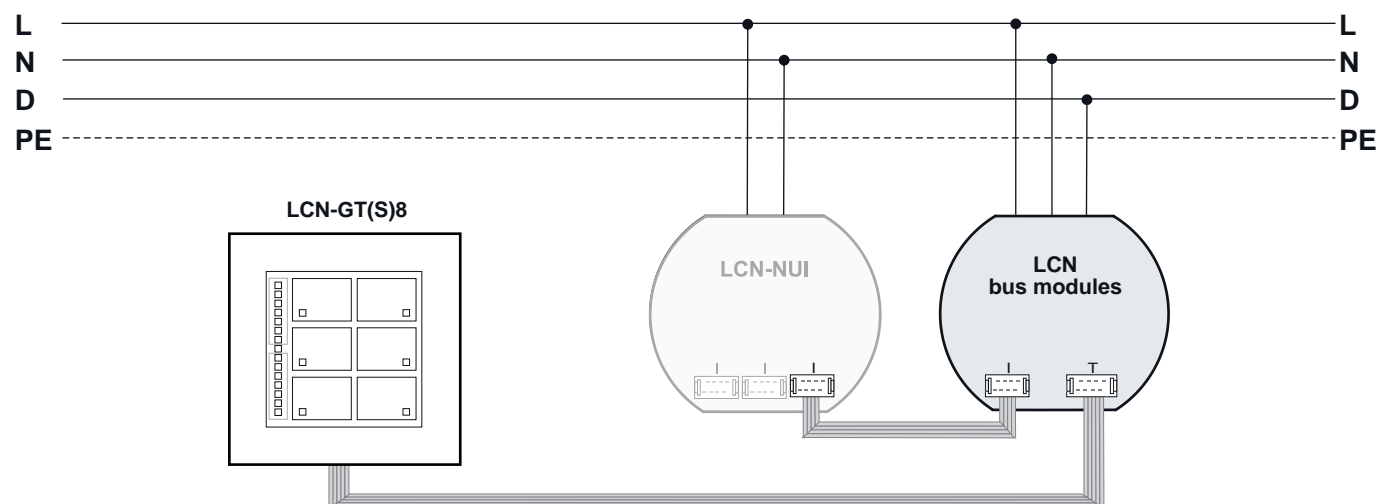
### Temperature sensor:

Measurement range:	-10 to 40 °C
Resolution:	0.1 °C
Accuracy:	0.3 °C from 15 to 30 °C

### General details:

Operating temperature:	-10 to 40 °C
Humidity:	max. 80% rel., non condensing
Installation:	Stationary installation according to VDE 632, VDE 637
Degree of protection:	IP 20

## Circuit diagram



External power supply unit optional for background illumination and Corona®-Light.

# LCN-GT12 | LCN-GTS12

Glass touch keypad with 12 keys and 12 LEDs plus bargraph

The LCN-GT(S)12 is a sensor touch panel with a bargraph display. It is connected to the mounting panel and a standard double flush mounted wall-box and firmly fixed with two sliding hooks. It connects to the T-Port of any LCN modules. The integrated temperature sensor allows the user to control the temperature.

## Description

The 12 capacitive sensor surfaces are located behind a 5 mm resp. 3 mm glass front. A light touch of the glass front is all that is needed to trigger the different functions. The intelligent control distinguishes between Short, Hold and Release so that three commands are possible for every key.

An LED which is integrated into every sensor indicates the current status of any actuator or sensor in the building using four indicator modes. The touch panel sensor pads can be labelled individually and changed easily. Blue optional background illumination on the sensors allows the LCN-GT(S)12 to be used comfortably with low room lighting.

The 15 digit bargraph display enables analogue ACTUAL and DESIRED values to be displayed. The individual labels for the LCN-GT(S)12 are printed on foil/membrane or paper, and fitted behind the glass front through a small slot. The labelling can be changed at anytime so that changes to the key functions do not create a problem. Easy to understand symbols and templates come delivered with the LCN-GT(S)12.

## Application fields

The LCN-GT(S)12 is for mounting in interior dry rooms. It can be used for every switch, regulator and control function within the LCN bus system. It is especially suited to the design orientated user who demands high performance and comfort.

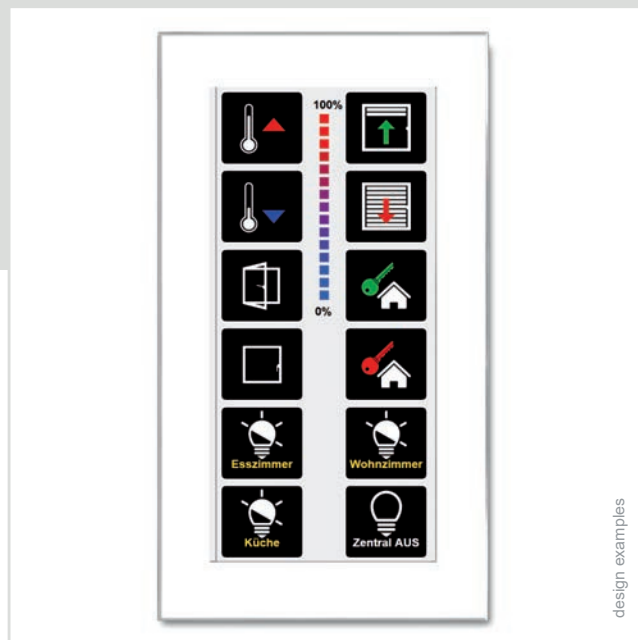
## Scope of delivery

- LCN-GT(S)12 in black or white, other colours available on request
- Mounting plate with adapter for connecting
- Printing foil
- Installation instructions

### Note:

Attention: Connect without power ! During installation, the electronics of the sensors can be destroyed by the lighting power supply if the cable comes in contact with the wrong terminal. The power supply LCN-NUI is to be switched off before connecting the LCN-GT(S)12. For more detailed information please refer to the installation guide.

Further examples of key-mapping variations



## Function:

The sensor surfaces of the LCN-GT(S)12 react capacitively to the glass front being touched. According to how long the glass panel is touched, a corresponding LCN command Short, Hold and Release is sent. The command is sent via the mounting panel to the T-Port of an LCN module. The 12 status-LED's integrated in the sensors are individually controlled via the T-Port and configured via the LCN-PRO as On, Off Flashing and Flickering.

The 15 digit bargraph display can show analogue values in an adjustable value area. Flashing mode helps to illustrate the difference between ACTUAL and DESIRED values. The integrated temperature sensor allows the user to control the temperature. Including an LED light corona with white LED's for decorative accent lighting and back-lighting (optional with the power supply LCN-NUI).

## Models:

### LCN-GT12

Size: 90 x 160 mm

Colour: white  
black  
champagne

LCN-GT12W  
LCN-GT12B  
LCN-GT12C



### LCN-GTS12

Size: 75 x 145 mm

Colour: white  
black  
champagne

LCN-GTS12W  
LCN-GTS12B  
LCN-GTS12C





# LCN-GT4D | LCN-GTS4D

Information keypad with 2.8" graphic display and four capacitive keys

The LCN-GT(S)4D is an info touch keypad with a TFT-Display. It is designed for mounting into a flush mounted wall-box and is fixed firmly to the wall with plastic slide-fittings. The LCN-GT4D is meant for use in interior dry rooms. It can be used for every switch, regulator and control task within the LCN bus system. It is connected via the I-Port of any LCN module as of version 140719 (July 2010). The integrated temperature sensor allows the user to control the temperature.

## Description

The four capacitively sensor surfaces are arranged behind a glass panel. A light touch of the surface is all that is required to initiate different functions. The intelligent control system distinguishes between Hit, Hold and Release so that three commands are possible for every key. The sensor surfaces can be digitally labelled on the display. Several different types of viewing options are possible on the display.

### Symbol-Line:

A maximum of six symbols can be displayed on the top-line of the screen. These symbols must be assigned to a binary input, relay, output or a logic-function and react to their status messages.

### Text-Line:

When using font size 20, every one of the four text lines can have a maximum of 63 characters displayed, of which 19 -23 characters are visible (auto scroll function). The text lines 1 to 3 can be adjusted to double the line height (font size 40) and occupy two lines.

### Key labelling:

A text for labelling the four keys can be displayed. The text can be a maximum of 25 characters long (without auto scroll). Alternatively, the display can show four lines of text if labelling the keys is not necessary. The LCN-GT(S)4D uses eight languages which can be adjusted during operation: German, English, French, Spanish, Polish, Turkish, Russian and Arabic.

## Application fields

The LCN-GT(S)4D is for mounting in interior dry rooms. It can be used for every switch, regulator and operational task within the LCN bus system. It is especially suited to the design orientated user who demands high performance and comfort.

## Scope of delivery

- LCN-GT(S)4D in black or white, other colours available on demand
- Mounting plate with adapter for connecting
- LCN-NUI power supply unit
- Installation guide

### Note:

Attention: Connect without power! During installation, the sensor's electronics can be destroyed by the lighting power supply if the cable comes in contact with the wrong terminal. The operation of further I-Port peripheries with bidirectional communications (e.g. LCN-ULT or IOS-MC55) is not permitted!



design examples

## Function:

The sensor surfaces of the LCN-GT(S)4D react capacitively to the glass front being touched. According to how long the glass panel is touched, a corresponding LCN command Short, Hold, Release is sent. The command is sent via the adapter to the I-Port of an LCN module. The sensor surfaces can be labelled on the digital display. The display shows a maximum of six status dependent symbols on the top symbol-line. In the lower text-lines, any desired text can be shown and represented either dependently or independently of status. The integrated temperature sensor allows the user to control the temperature.

A special feature of the LCN-GT(S)4D is its built-in 24 channel timer switch with a total of 96 switching moments. The 24 channels can be readily labelled so that any changes in switching moments can also be made by end consumers. The time switching functions make it easy for programming when it comes to local bank holidays and other holidays or to entering one's own personal holiday calendar. Programming of time and calendar functions as well as the entering personal texts is achieved with the LCN-PRO. Individual times, bank holidays and other holidays can be modified either in the LCN-GT(S)4D or the LCN-PRO as desired.

## Models:

### LCN-GT4D

Size: 90 x 90 mm

Colour:	white	LCN-GT4DW
	black	LCN-GT4DB
	champagne	LCN-GT4DC



### LCN-GTS4D

Size: 75 x 75 mm

Colour:	white	LCN-GT4DW
	black	LCN-GT4DB
	champagne	LCN-GT4DC



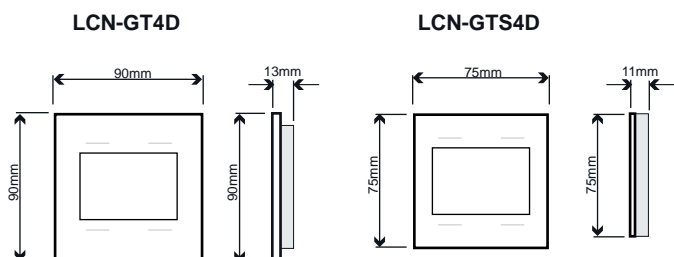
# LCN-GT4D | LCN-GTS4D

Information keypad with 2.8" graphic display and four capacitive keys

- Four capacitive sensor surfaces behind glass
- TFT coloured display with 71mm diagonal (2,8")
- Display to visualize all functions
- Including white Corona surrounding light
- Including integrated temperature sensor
- Including 24 channel timer switch
- For operating on the I-Port

## Dimensions:

LCN-GT4D (H x W x D):	90 x 90 x 13 mm (5 mm glass thickness)
LCN-GTS4D: (bevelled edges)	75 x 75 x 11 mm (3 mm glass thickness)
Assembly:	With mounting plate for a flush mounted wall-box.
Frame:	Available in white, black and champagne, special customized colours on request.



## Technical data

### Connection

Power supply:	via LCN module + external supply unit LCN-NUI
LCN-Connection:	I-Port (from version 140719)

### Keys:

Type:	4 keypads for digital labelling with the LCN-PRO software
Function:	Short, Hold, Release

### LED's:

Corona® LEDs:	white Corona® light for decorative accent lighting
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### Display:

Type:	TFT Colour display
Size:	2.8", 320 x 240 pixels
Display:	1 line for max. 6 symbols 4 lines for text up to 63 characters
Colours:	65.356 colours

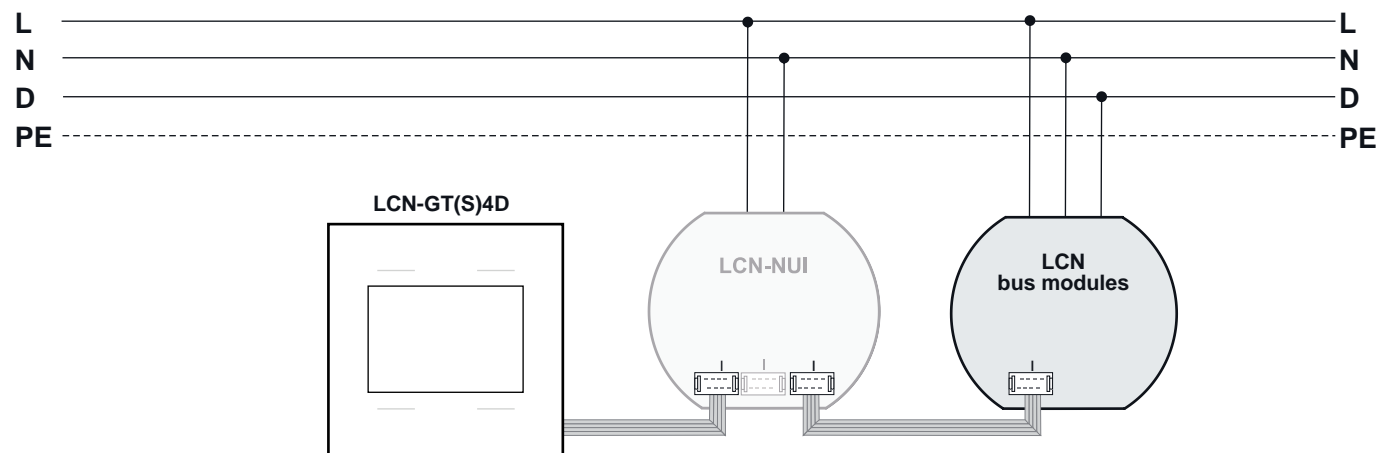
### Temperature sensor:

Measurement range:	-10 to 40 °C
Resolution:	0.1 °C
Accuracy:	0.3 °C from 15 to 30 °C

### General details:

Operating temperature:	-10 to 40 °C
Humidity:	max. 80% rel., non condensing
Environmental conditions:	Stationary installation according to VDE 632, VDE 637
Degree of protection:	IP 20

## Circuit diagram



# LCN-GT10D | LCN-GTS10D

Glass Touch-Keypad with 6 + 4 keys and 2.8" graphic display

The LCN-GT(S)10D is an information keypad with TFT display. It is intended for installation on two flush-mounted boxes or one double box and can be fixed firmly to the wall by means of a special mounting plate. It is connected via the I-Port of any LCN module of version 140601 or higher (June 2010). The integrated temperature sensor allows the user to control the temperature.

## Description

The capacitive sensor surfaces are positioned behind a glass panel. Slight contact with the surface is sufficient to trigger various functions. The intelligent control system distinguishes between tapping, prolonged contact and releasing of the keys, with the result that three commands are possible per key. Six integrated LEDs in the six lower sensor surfaces provide information about the current status of any actuators or sensors in the building. The individual labelling of the sensor surfaces can be transferred to paper/film and placed behind the glass panel. This labelling can be replaced at any time, which means changes to the key assignment are no problem. The four upper sensor surfaces can be labelled digitally by means of the LCN-PRO. Several different types of viewing options are possible on the display.

### Symbol-Line:

A maximum of six symbols can be displayed on the top-line of the screen. These symbols must be assigned to a binary input, relay, output or a logic-function and react to their status messages.

### Text-Line:

When using font size 20, every one of the four text lines can have a max. of 63 characters entered, of which 19 -23 characters are visible (auto scroll function). The text lines 1 - 3 can be adjusted to double the line height (font size 40) and occupy two lines.

### Key labelling:

A text for labelling the four keys can be displayed. The text can be a maximum of 25 characters long (without auto scroll). Alternatively, the display can show four lines of text if labelling the keys is not necessary.

The LCN-GT(S)10D uses eight languages which can be adjusted during operation: German, English, French, Spanish, Polish, Turkish, Russian and Arabic.

## Application fields

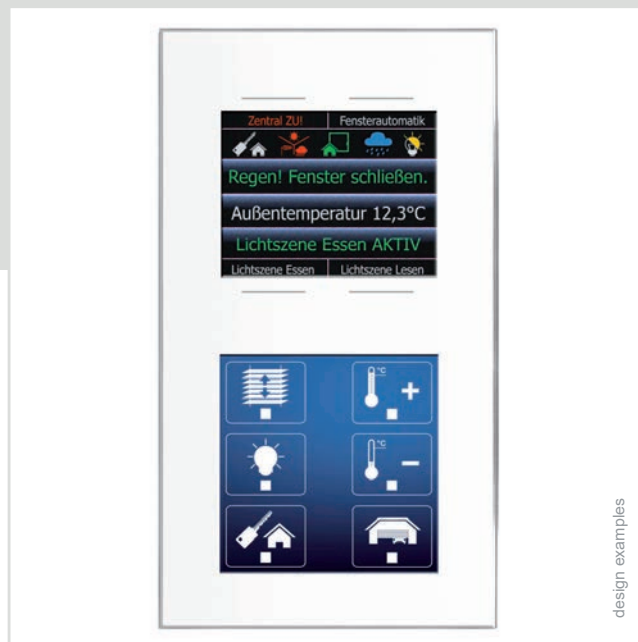
The LCN-GT(S)10D is intended for installation in dry interior rooms. It can be used for all switching, regulation and control tasks in the LCN bus. It is particularly suitable for design-oriented users who place very high demands on functionality and convenience.

## Scope of delivery

- LCN-GT10D | LCN-GTS10D
- Mounting plate with adapter for connecting
- LCN-NUI power supply unit
- Installation guide

### Note:

Attention: Connect without power! During installation, the sensor's electronics can be destroyed by the lighting power supply if the cable comes in contact with the wrong terminal. The operation of further I-Port peripherals with bidirectional communications (e.g. LCN-ULT or IOS-MC55) is not permitted!



## Function:

The sensor surfaces of the LCN-GT(S)10D respond capacitively to contact with the glass surface. A corresponding LCN control command Short, Hold or Release is sent, depending on the contact duration. The control command is transmitted to the I-Port of an LCN module via the adapter included in the scope of delivery. The six status LED's in the lower sensor surfaces are controlled separately via the I-Port and configured by the LCN-PRO as On, Off, Flashing or Flickering. A maximum of six symbols appear on the display, depending on the status. Any text can be displayed on the bottom text lines, either status-independently or status-dependently. The upper sensor surfaces can be labelled digitally on the display. The integrated temperature sensor allows the user to control the temperature.

The blue sensor backlighting (optional) allows the LCN-GT10D to be operated conveniently even without much ambient light. A particular highlight of the LCN-GTS10D is its built in 24-channel timer with a total of 96 switching times. The 24 channels can be labelled as desired, which means switching points can be changed even integrated temperature sensor. The convenient programming of timer functions directly in the LCN-GT10D or LCN-PRO allows local bank holidays and holidays to be entered, well as a personal holiday calendar.

## Models:

### LCN-GT10D

Size: 90 x 160 mm

Colour: white  
black  
champagne

LCN-GT10DW  
LCN-GT10DB  
LCN-GT10DC



### LCN-GTS10D

Size: 75 x 145 mm

Colour: white  
black  
champagne

LCN-GTS10DW  
LCN-GTS10DB  
LCN-GTS10DC



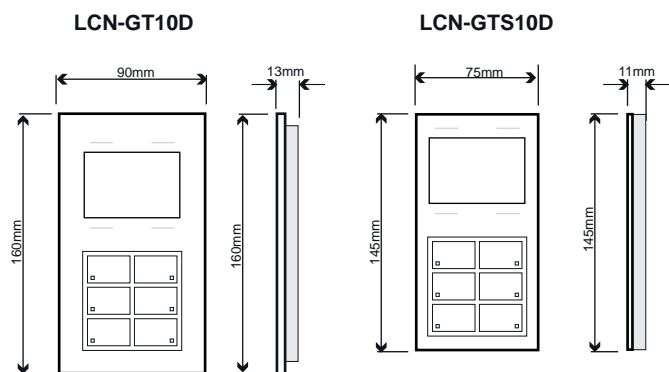
# LCN-GT10D | LCN-GTS10D

Glass Touch-Keypad with 6 + 4 keys and 2.8" graphic display

- 6+4 capacitive sensor surfaces behind glass
- Six status LED's
- TFT coloured display with 71mm diagonal (2,8")
- Display to visualize all functions
- Including white Corona surrounding light
- Including integrated temperature sensor
- Including 24 channel timer switch
- For operating on the I-Port

## Dimensions:

LCN-GT10D (H x W x D):	90 x 160 x 13 mm (5 mm glass thickness)
LCN-GTS10D: (bevelled edges)	75 x 145 x 11 mm (3 mm glass thickness)
Assembly:	With mounting plate for a flush mounted wall-box.
Frame:	Available in white, black and champagne, special customized colours on request.



## Technical data

### Connection

Power supply:	via LCN module + external supply unit LCN-NUI
LCN-Connection:	I-Port (from version 140719)

### Keys:

Type:	6+4 capacitive sensors with 6 status LEDs behind glass
Function:	Short, Hold, Release
Labelling:	Labelling membrane/foil

### LEDs:

Status-LED's:	6 LEDs, command controlled
Function:	On/Off/Flashing/Flickering
Background illumination:	6 blue LEDs
Corona® LEDs:	white Corona® light for decorative accent lighting

### Display:

Type:	TFT Colour display
Size:	2.8" (71 mm), 320 x 240 Pixel
Display:	1 line for max. 6 symbols, 3 lines for text up to 63 characters, alternatively also 4 lines for text without key labelling

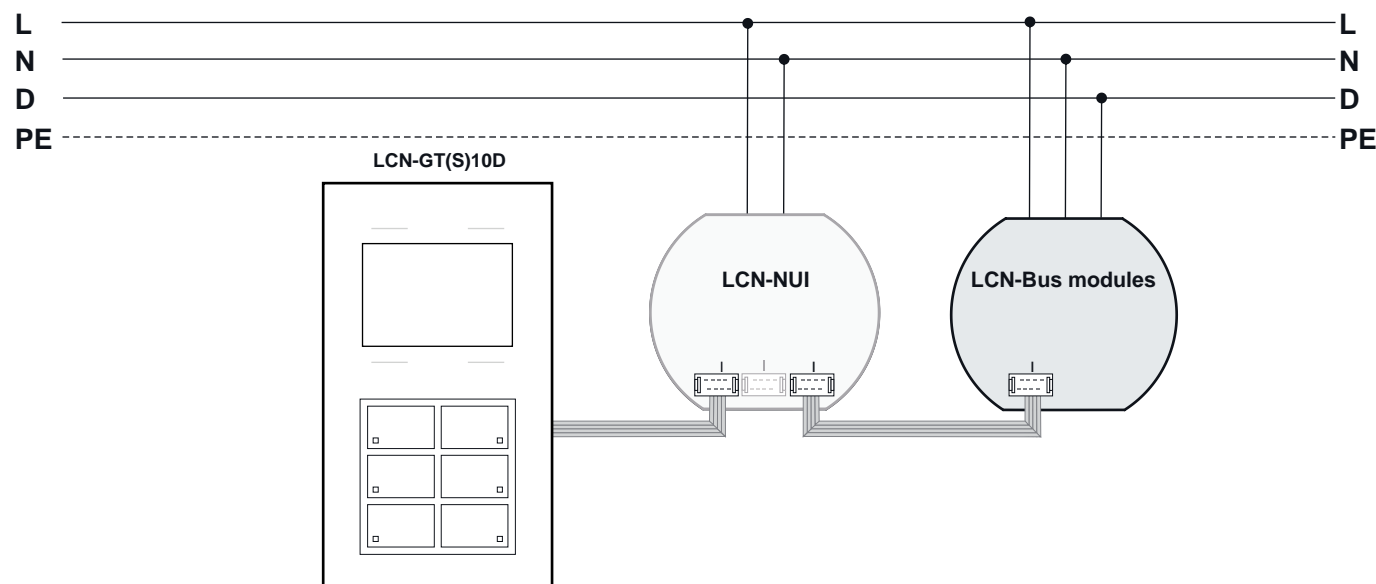
### Temperature sensor:

Measurement range:	-10 to +40 °C
Resolution:	0.1 °C
Accuracy:	0.3 °C from 15 to 30 °C

### General details:

Operating temperature:	-10 to +40 °C
Humidity:	max. 80% rel., non condensing
Installation:	Stationary installation according to VDE 632, VDE 637
Degree of protection:	IP 20

## Circuit diagram





# LCN-MT4

## Four key sensor for 55 mm central inserts

The LCN-MT4 is a mechanical button with four keys. It can be used with LCN-modules as from version 17070A (July 2013) or higher. Having an integrated IR receiver the LCN-MT4 can process the signal of LCN remote controls. Additionally, the four keys have an integrated status LED and an extensive backlight.

A Corona® surrounding light with white LEDs serves as a subtle orientation light, if an LCN-G55 frame is used. This facilitates the use at a low ambient light level.

### Description

The four key sensor initiates the keys C1 to C4 or C5 to C8. Depending on the duration of contact, a corresponding LCN-control-command Short, Hold or Release is transmitted. The four red key LEDs can be programmed individually as On, Off, Flashing or Flickering. The brightness can be set to different levels. Operating both the backlight and Corona® surrounding light, an external power supply is required (LCN-NU1, not included). An external power supply is also useful at normal daylight because it enhances the brightness of the status LEDs.

The individual letterings for the LCN-MT4 are printed on foil or paper and placed on the front. Printing new inlays is possible at any time. So that, changing the key layouts is no problem.

### Application fields

The LCN-MT4 is for mounting in interior dry rooms. It can be used for every switch, regulator and operational task within the LCN bus system. It fits into common 55 mm frames. It is especially suited to the design orientated user who demands high performance and comfort. The operation of up to LCN-MT4 at the same time is not possible.

### Scope of delivery

- LCN-MT4
- Suction cup for disassembly
- Mounting plate
- Printing foil
- Installation guide
- Mounting material

#### Note:

Attention: Connect without power!

Switch off power supply LCN-NU1 prior to installing the LCN-MT4. For more detailed information please refer to the installation instructions.



### Models:

#### LCN-MT4

Size: 55 x 55 mm

Colour:	white	LCN-MT4W
	black	LCN-MT4B

# LCN-MT4

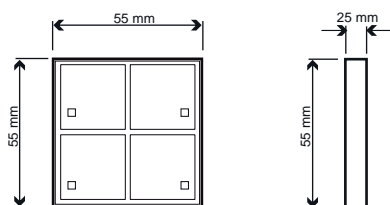
Four key sensor for 55 mm central inserts

- 4-way push-button
- Including infrared sensor
- Including background key light
- Individual designing for the key inlays
- For operating on the I-Port

## Dimensions:

LCN-MT4 (H x W x D): 55 x 55 x 15 mm

Assembly: mounted as central insert



## Technical data

### Connection:

Power supply: Via the LCN-module, optional via LCN-NUI  
 LCN connection: I-Port, length 230 mm, not extendable

### Keys:

Type: 4 mechanical keys with status LEDs  
 Function: Short, Hold, Release  
 Inlay: exchangeable foil/paper

### LEDs

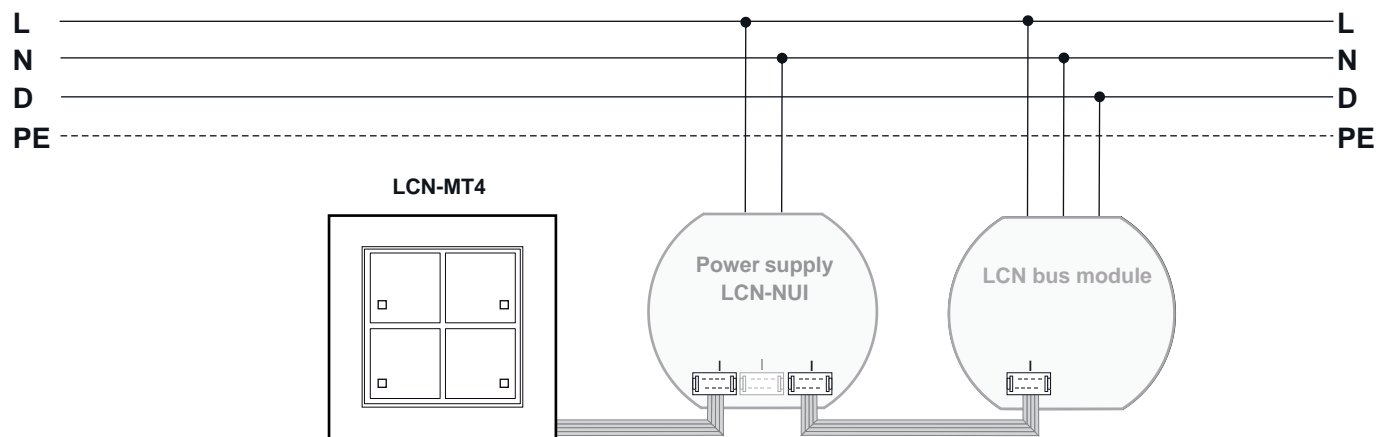
Status-LEDs: 4 red LEDs to display LCN-status messages  
 Function: On/Off/Flashing/Flickering  
 Background illumination: LED's

### General details:

Operating temperature: -10 to +40 °C  
 Humidity: max. 80% rel., non condensing  
 Environmental conditions: Stationary installation according to VDE 632, VDE 637  
 Degree of protection: IP 20

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## Circuit diagram



# LCN-G55 | LCN-GS55

## Glass frame for mounting System 55 mm

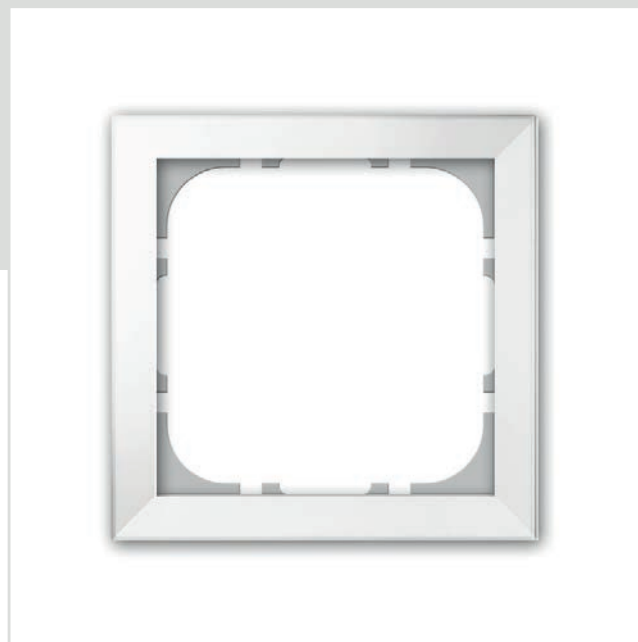
With the LCN-G55 and LCN-GS55 single frame, sockets can be installed on the LCN-GT (S) series. The glass frame has a thickness of 5/3 mm .

### Description

The frame is suitable for all central inserts with the dimensions 55 x 55 mm (System 55/Standard 55). It is ideal for design-oriented users with highest demands on function and comfort .

### Scope of delivery

- LCN-G55/LCN-GS55
- Installation instructions



### Dimensions:

LCN-G55 (W x H x D):	90 x 90 x 11,7 mm (4 mm glass thickness)
LCNGS55	75 x 75 x 10.5 mm (bevelled edges)
Assembly:	The frame is fixed by the outlet or switch/button on the mounting plate or flush mounted wall box.

### Models:

#### LCN-G55

Size: 90 x 90 mm

Colour:	white	LCN-G55W
	black	LCN-G55B
	champagne	LCN-G55C



#### LCN-GS55

Size: 75 x 75 mm

Farbe:	white	LCN-GS55W
	black	LCN-GS55B
	champagne	LCN-GS55C



### Note:

Please read the installation guide for further information.

# LCN-G55-2 | LCN-GS55-2

Double glass frame for mounting System 55 mm

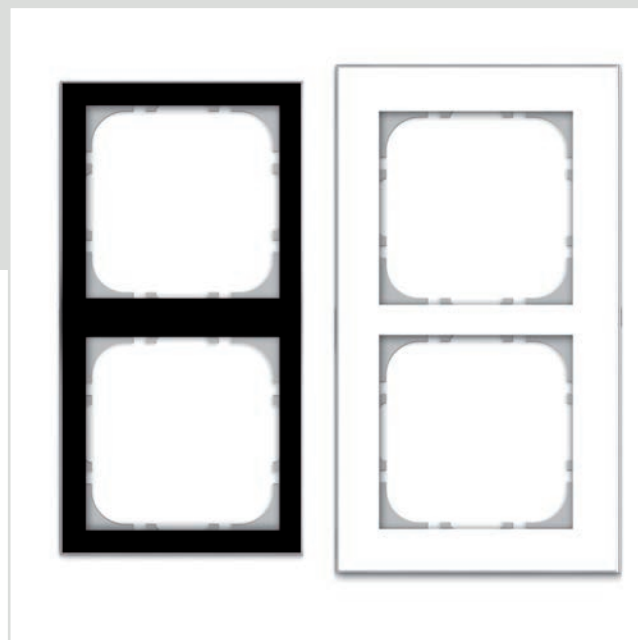
With the LCN-G55-2 or LCN-GS55-2 double frame, sockets can be installed on the LCN-GT (S) series fit . The glass frame has a thickness of 5/3 mm .

## Description

The frame is suitable for all central inserts with the dimensions 55 x 55 mm (System 55/Standard 55). It is ideal for design-oriented users with highest demands on function and comfort .

## Scope of delivery

- LCN-G55-2/LCN-GS55-2
- Installation guide



## Dimensions:

LCN-G55-2 (W x H x D):	90 x 90 x 11,7 mm (4 mm glass thickness)
LCN-GS55-2	75 x 75 x 10.5 mm (bevelled edges)
Assembly:	The frame is fixed by the outlet or switch/button on the mounting plate or flush mounted wall box.

## Models:

### LCN-G55-2

Size: 90 x 160 mm

Colour: white  
black  
champagne

LCN-G55-2W  
LCN-G55-2B  
LCN-G55-2C



### LCN-GS55

Size: 75mm x 148mm

Colour: white  
black  
champagne

LCN-GS55-2W  
LCN-GS55-2B  
LCN-GS55-2C



## Note:

Please read the installation guide for further information.