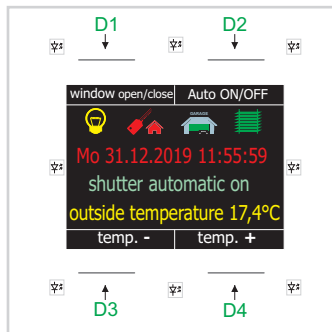


## Info touch-panel with 4 keys, 2,8" TFT-colour display, timer switch and temperature sensor

The LCN-GT4D is a 4-way sensor touch-panel with display for the I-connection on any LCN-module with version 140719 (July 2010) or after. It can be operated parallel with e.g. LCN-GT2, -GT3L or LCN-sensor technology. Due to the intergrated temperature sensor, the touch-panel can be used to regulate temperature among other things.

A corona® surrounding light with 8 white LED´s serves as a decorative accent lighting and as an orientation light, which means that the LCN-GT4D can be comfortably operated even with low environmental light.



The 4 capacitive working sensor areas are situated behind a 5 mm thick glass front. A soft touch on the surface is enough to trigger off functions.

The additional captions for the sensor areas can be shown in the display (see above).

### Included in delivery

LCN-GT4D, LCN-NUI (power supply), mounting frame, 2 screws 3,2x15mm & CD.

### How the sensor keys function

The four capacitive **sensor areas** (D1-D4) each support 3 free variable functions: HIT, LONG and RELEASE. The LONG pressing time can be adjusted with the LCN-PRO. The four sensor keys work on the D table of the connected module. A signal tone (can be switched off) informs over the pressed keys.

### Corona® - surrounding light

The Corona®-surrounding light can be controlled over the LED command "GT4D corona", function: On, Off, flicker. The brightness of the Corona®-surrounding light can be adjusted four steps, over the command LED control/LED brightness - see also online help in the LCN-PRO.

## Display

On the 2,8" TFT-colour-display, up to six symbols, 3 text rows with each up to 63 characters and 4 areas for the key captions can be shown. If the text captions are not needed, then even 4 text rows are possible.

With firmware version 4 or later, 2 variables can be displayed in one row. This makes it possible, e.g. to show the set value and the actual value in the same row.

The display can stay permanently switched on. The brightness can be set per command "LED brightness" in four steps: 0% (OFF), 33%, 66% und 100%.

### presentation examples

key captions

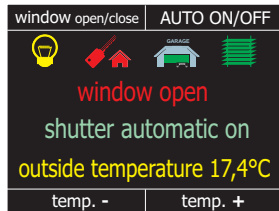
symbol row

text row 1

text row 2

text row 3

key captions



**symbol row:**

max. 6 symbols possible - alignment middle.

**text row 1 to 4:**

each row 63 characters - around 20 visible.

**key captions:**

each key max. 25 characters - alignment and colour variable.

The following informations can be shown on the display:

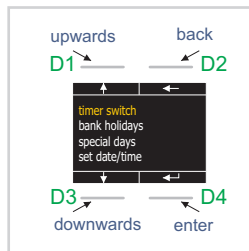
**Symbol row:** output 1..4 (ON/OFF/Dim); relay (On/OFF), binary inputs (On/OFF), sums (AND/OR/NOT), etc.

**Text rows:** text set fixed / output 1 - 4 / variable 1-12 / regulators 1 and 2 (set-/ actual value) / threshold values / relays / binary-inputs / logic functions. In the text rows, up to 23 characters can be freely chosen depending on the characters, as scrolling text even up to 63 characters can be displayed. The text rows 1 to 3 can be displayed in double size.

**Key caption:** A caption text can be inserted for the 4 keys. This text can be max. 25 characters long. 4 text rows can be shown alternatively, when the key captions are not needed.

### Time- and calendar functions

The LCN-GT4D is equipped with a built in 24-channel timer switch with a total of 96 time switching points. The 24 channels can be named freely, so that any changes in the switch points can be carried out through the user. Bank holidays as well as a



personal holiday calendar allow a comfortable programming of the timer switch functions.

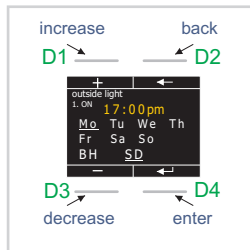
The first setup is done with the LCN-PRO, where as inserting the captions is only done using the programming software. The times, holidays can be directly inserted into the LCN-GT4D by the user (or with the LCN-PRO). The setup menu appears, when the keys D2+D3 are pressed at the same time.

Date and time have to be set when first activated and reset after voltage has been restored, if this isn't carried out through the weather station (LCN-WIH) automatically. This can be done using the LCN-PRO or directly on the LCN-GT4D. Set switching times and calendar functions are kept stored, even after the power supply has been interrupted. To insert bank holidays and special days, the actual date and time have to be set first.

Further Informations can be found within the online help in the LCN-PRO.

### Changing languages

The LCN-GT4D supports eight languages: german, english, french, spanish, polish, turkish, russian and arabian, which can be toggled during operation. To do this, you will find the appropriate command in the LCN-PRO.



### Installation

A maximum of 4 simple periphery devices may be used parallel to the LCN-GT4D on the I-connection, e.g. LCN-GRT, -RR, -GT3L, -GT2, -GBL, however not the LCN-ULT, -GT10D or IOS-devices. The connection cable to the LCN module can be extended optionally up to 20m (0,8mm ) by using 2 LCN-IV's. (When branch connecting, the total length of the I-cable should not exceed 50m)- see also "TDI-connections from periphery".

**Important: When operating the LCN-GT4D/-GT10D, no DALI/DSI signals can be given out! Operating the LCN-IV as Impulse counter / counter input is not possible!** The LCN-GT4D may only be connected to the enclosed power supply LCN-NU1 or optionally to the alternative power supply LCN-NIH.

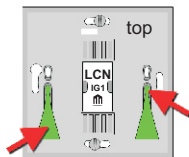
The LCN-GT4D reacts to status messages on older LCN modules as follows:

<u>Ser. nr. module</u>	<u>queried Information</u>
060101 (Jan. 1996) . . . . .	relays- / binary sensor- / sum- / output status
0A0A0B (Oct. 2000). . . . .	like 060101, additionally: actual value
100A06 (Oct. 2006) . . . . .	like 0A0A0B, additionally: set values

## How to Install

Install power supply LCN-NUI in a flush mounted box. Connect the LCN mounting frame to the I-connection of a module and screw the mounting frame onto the flush mounted box. pull out the plastic slides sideways at the rear of the info touch-panel and guide the LCN-GT4D at a slight angle towards the bottom of the mounting frame. The LCN-GT4D must hook into the corners of the mounting frame in the bottom area. Tilt the top area towards the wall and push the side plastic slides inwards, this will ensure that the LCN-GT4D is clamped tightly.

adjusting the mounting frame



green:  
help for insertion



1. insert guiding pins at an angle from the bottom

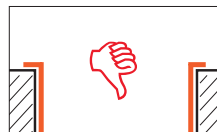
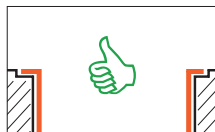


2. engage to the bottom corners in a slanted movement



3. press the LCN-GT4D towards the wall, lock slides on the side

**Important:** The LCN-GT4D must not “wobble” on the wall, as this can cause false triggering. That’s why, when installing the flush mounted box or cavity wall box, the sinking edges have to be flush with the wall surface, to guarantee a flawless function of the LCN-GT4D.

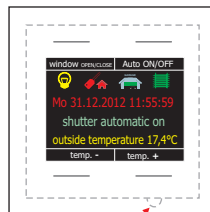


### Temperature sensor integrated

In the info touch-panel LCN-GT4D there is a temperature sensor integrated. Thanks to a triggering from 0,1°C and an adaptive mean value formation, it delivers noiseless measured values.

The sensor will be automatically recognized by the modules from 2012 or after and registered in the variable (R1Var) - you can check the value in the analogue status window within the LCN-PRO.

Do not install temperature sensors near a loaded (warm) LCN-UPP or near heat sources, lights or cooling units, as these could possibly falsify temperature values. In this case it would be better to install an extra LCN-GRT and use its measured values!



temperature sensor



## I-port extension

### with I-connection extension

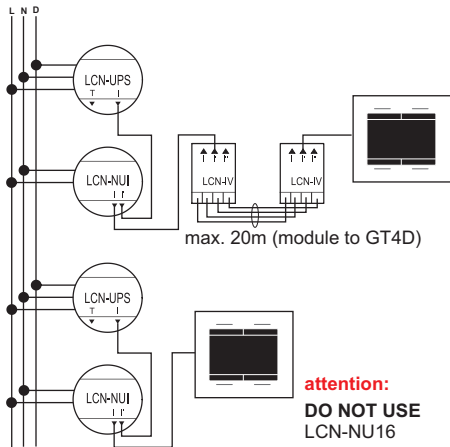
Install the supplied power supply LCN-NUI in the same flush mounted box as the LCN-UPx. Simply loop the LCN-NUI onto the I-cable. The power supply is supplied directly over the four-pole I-connection extension. Connect the I-cable to be extended on to the LCN-IV.

### without I-port extension

The LCN-GT4D and the appropriate LCN-UPx are both plugged directly to the LCN-NUI using the I-connecting cable.

### Guidelines to I-connection

The I-connecting cable to the LCN module can be extended up to 50m per LCN-IV (*all diverted lengths together*) (use 0,8mm ). But: The distance between an LCN-NUI and up to a maximum of 2 GT-info touch panels, must not exceed a length of 20m. Please see also "TDI-connections from periphery" on [www.LCN.de](http://www.LCN.de).



### How to configure

The LCN-GT4D Version 4 can be configured with LCN-PRO version 4.5 or later. It will be automatically recognized during configuration, during the read out, the word "PROGRAMMING" will be shown in the display. The key assignment (s. illustration page 1) is carried out over the table D. The display can be configured over the menu Ports>I-port.

**Technical data LCN-NUI power supply**

input voltage:	LCN-NUI 110V - 230V AC $\pm 15\%$ , 50/60Hz
connection input volt.:	2 wires with wire end-sleeves 0,75mm <sup>2</sup>
output voltage:	5V DC (stable)
power consumption:	max. 2,5W
connection output volt.:	3 I-connecting jacks
environmental temperature:	-10°C to + 40°C
air humidity:	max. 80% rel., non condensing
usage:	stationary installation according to VDE632, VDE637
protection art:	IP20
dimensions:	ø 50mm x 22mm

### Technical data LCN-GT4D

#### connection

power supply:	over the I-port (with an LCN-NUI)
LCN-connection:	sliding contact to connect on to the mounting frame

#### function

keys:	4 capacitive sensor areas behind glass, with the functions HIT / LONG / RELEASE
display:	2,8" (71mm) TFT-colour display (320 x 240 pixels), 65536 colours
LEDs:	8 white Corona®-LED's controlled over command"LED-brightness", functions: OFF /50% / 75% / 100%
timer switch:	24 channels with 96 switching times
temperature sensor:	measuring range from -10°C to +40°C triggering 0,1°C accuracy type 0,3°C von +15°C bis +30°C

#### installation

dimensions (W x H x D):	90mm x 90mm x 16,9mm (5mm glass thickness)
environment:	-10°C bis +40°C, air humidity: max. 80% rel., non condensing
usage:	stationary installation according to VDE632, VDE637

Technical information and images are non binding. Changes are reserved.

Technical hotline: +49 5066 998844 or [www.LCN.de](http://www.LCN.de)