

## EnOcean Gateway

The LCN-EGR is an EnOcean gateway, to operate EnOcean inputs, outputs and sensors on an LCN-module with firmware 190512 (May 2015). Amongst other components, smoke detectors, push-buttons, binary sensors (e.g. window contacts), temperature sensors, as well as relays and dimmable outputs are supported.

## Possible combinations for integrating ELTAKO

### EnOcean components:

**A maximum of 5 devices connected at the same time**

1 x Humidity sensor (allocated to variable)

1 x CO2 sensor (allocated to variable)

2 x Temperature sensors (allocated to variables)

2 x Light sensors (allocated to variables)

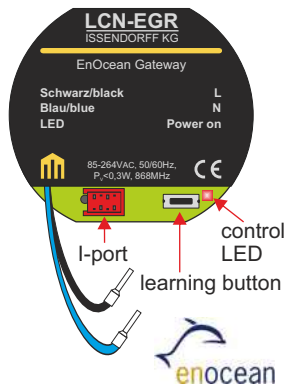
1 x Current sensors (allocated to variables)

2 x 4-way push-button (work on A1-A4+A5-A8) or 1 x 8-way push-button (works on A1-A8)

2 x Relays (react to relays 1 + 2) or 2 x Dimmers (react to outputs 1 + 2)

2 x Binary sensors (work on B5 + B6) or 2 x Window handles (work on B1, B2 + B7, B8)

Components are compatible with each other



EnOcean components from other manufacturers are supported. **We recommend to check beforehand! The hotline will be glad to support Tel.: +49 (0) 5066 998-844.**

### Range between transmitters and receivers

The range of the wireless signals are very dependable on the installation in the building. With intervisibility, the range is up to 100m, in corridors and halls up to 30m.

The range depends on the building materials that have been applied:

- brick walls / gas concrete typ. >> 20 m through max. 3 walls
- gypsum cardboard / wood (dry) typ. >> 30 m through max. 5 walls
- reinforced concrete / concrete ceilings >> 10 m through max. 1 wall

We generally recommend that you carry out a range distance test before installing!

### Limitations in the range of wireless signals:

- Metal near the LCN-EGR
- The minimum distance to other EnOcean receivers, ECG's or (interfering) transmitters like computers, audio or video devices, that work on similar frequencies, should be at least 0,5m!

### Teaching

In normal operation, the LED on the gateway lights up permanently. It begins to blink or flicker, depending on the teach-in mode. Then the LCN-EGR is ready and the device that firstly sends a signal, will be taught-in. That is why you should make sure, that during the teach-in phase, no other EnOcean components are activated.

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### Teaching a sensor (smoke detector, window contact, motion detector and so on):

1. The learning procedure will start by SHORT touching the button on the gateway or activated over the LCN-PRO in the learn mode. The red LED begins to blink.
2. Now send out the learn telegram from the sensor.
3. The red LED on the gateway will light up continuously. An operation signal will be sent out, whether the learn-in procedure was successful or has failed.

**Note:** If the teach-in procedure has failed, it will terminate after 60 seconds.

### Teaching a dimmer (activate LEDnet):

1. The learning procedure will start by touching the button on the LCN-EGR LONG (>2 Sec.) or activated over the LCN-PRO in the learn mode.  
The red LED on the LCN-EGR begins to flicker.
2. Switch the dimmer manually per control input / rotating switch.
3. The red LED on the LCN-EGR will light up continuously. An operation signal will be sent out, whether the learn-in procedure was successful or has failed.
4. Now the dimmer has to be put into the (PCT-) learn mode - see operating instructions of the dimmer.
5. Touch the button on the LCN-Gateway or the button in the learn in dialogue of the LCN-PRO, so that a learn telegram will be sent out. The red LED on LCN-gateway blink twice.
6. Adjust the dimmer back to normal condition.

**Teaching a shutter** (activate P-Port motor/shutter 1-4): \_\_\_\_\_ 1.

The learning procedure will start by touching the button on the LCN-EGR LONG (>2 Sec.) or activated over the LCN-PRO in the learn mode.

The red LED on the LCN-EGR begins to flicker.

2. Operate the shutter actuator manually per control input and stop again.  
The red LED on the LCN-EGR will light up again continuously.  
An operation signal will show if the the learn-in prodedure was successful or not.
3. Put the shutter actuator into the teach-in mode. (see operation instructions)
4. Touch the button on the LCN-EGR or the button in the learn in dialogue of the LCN-PRO , so that a learn telegram will be sent out. The red LED on LCN-gateway blink twice.
5. Adjust the shutter actuator back to its normal condition.

**Teaching a relay** (activate P-Port):

1. The teach-in procedure is (only) started over the LCN-PRO. The red LED begins to flicker.
2. Switch on the relay actuator by its control input, then switch it off again.
3. The red LED lights up continuously and an LCN-operating signal will be sent if the teach-in procedure was successful.
4. Put the relay actuator into the learn mode "central on". Touch the "central on" button in the LCN-PRO.
5. Put the relay actuator into the learn mode "central off". Touch the "central off" button in the LCN-PRO.
6. Adjust the relay actuator back to its normal condition.

The teach-in procedure can be activated locally on the LCN-EGR for relays, shutters & dimmers, by pressing the button LONG (>2 sec.).

**Important:** you will find a detailed description on how to learn-in each ELTAKO component in the online help of the LCN-PRO!

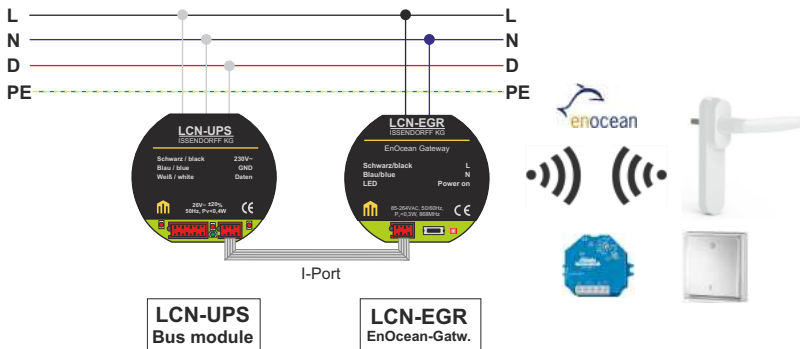
**General notes:**

- A parallel operation with T/I-port periphery, that work on the A table, **is not possible** (LCN-GT4D/-T8/-GT10D/-BU4L/-BT4H/-BT4R/-TU4C).
- Operating an LCN-IV as pulse counter / counter input, is not possible!
- Parallel operation with an LCN-B3I is not possible, when two window handles (B1+B2, B7+B8) have been learned in!
- When an electrical meter has been learned-in, a parallel operation with an LCN-BU4L as an SO counter, is not possible!
- Motion detectors have a distinctively longer switch-off command as with an LCN motion detector.
- The relay timers are not usable with the usual accuracy
- When the gateway is switched on, you have to wait until the sensors send a value. Retrieving the actual value is not possible.
- When EnOcean relays are used, the relays on the P-port of the LCN DIN rail mounted modules have to be activated!
- When using the EnOcean dimmer, the function „LEDnet“ on the I-port has to be activated!
- Confirmation telegrams (acknowledgments) must be activated on the EnOcean actuator (see operators guide).
- Conversion with current meters: 1W = 1LCN

## Installation

The installation is carried out in a flush-mounted box, possibly near the EnOcean device.

## Connection



## Putting into operation

**requirements:** The LCN-EGR can be operated on LCN bus modules with firmware 190512 (May 2015) or after, and parameterized with an LCN-PRO version 5.2 (or later).

**settings:** The LCN-EGR will be automatically recognised from the module.

**Technical data****Connection**

power supply:	110V - 230V AC, 50/60Hz
power consumption :	P <sub>max.</sub> =2,5W, P <sub>v</sub> ≤0,3W
terminals/wire type:	2 fine wires with wire end-sleeves 0,75mm <sup>2</sup>
LCN-connection:	I-Port with firmware 190512 (May 2015) for bidirectional communication with the module

frequency:	868MHz
EnOcean:	max. 5 devices can be learned

**Installation**

operating temperature:	10°C..+ 40°C
air humidity:	max. 80% rel., non condensing
protection art:	IP20 for installing in a flush-mounted box, only stationary installation, according to VDE632, VDE637

dimensions:	50mm ø x 22mm
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**Note:** To avoid interferences, the power supply (phase) has to be identical to the phase on the LCN module on which the supplied periphery is operated.

Technical information and images are non binding. Changes are reserved.  
Technical hotline: +49 5066 998844 or [www.LCN.de](http://www.LCN.de)