

CAN-LIN Gateway

Quick start guide

V 2

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We make energy mobile.

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Safety

This Quick Start Guide is intended to support safe handling of the CAN-LIN Gateway.

The CAN-LIN Gateway allows the LPS II to be integrated into the Mercedes-Benz Advanced Control (MBAC) and therefore the most important data of the LPS II to be shown in the MBUX multimedia display, on additional displays in the motorhome body or the MBAC app.

In addition to the information on current and voltage for solar, on-board network and external feed, the charging status of the LPS II is also shown on the original vehicle display, along with how to switch the 230 V inverter of the LPS II on and off.

Observe the safety instructions:

⚠ WARNING! Risk of injury from electric shock. Disconnect the vehicle negative cable prior to installation.

⚠ WARNING! Fire hazard due to short circuit: Secure your vehicle with an additional fuse installed near the unit.

NOTE! Penetrating water can damage the unit: Prevent water from entering the housing during cleaning.

NOTE! The unit is designed for interior use only. Do not mount the unit outside the vehicle.

NOTE! Installation must only be carried out by qualified electricians.

Package contents

No.	Name
1x	CAN-LIN Gateway
1x	Quick start guide

Accessories (optional)

CAN-LIN Gateway connection cable to LPS II	
Part number	1601001136
Cable length:	5 m
Connections:	open cable end on M12 connector

Technical specifications

	CAN-LIN Gateway
Part number	3001002027
Voltage range	9.8 V ... 14.6 V DC:
Temperature range	-20 °C ... +75 °C
Power consumption	18 mA
Housing	7-pin relay socket housing
BUS system connections	CAN bus/LIN bus
IP rating	IP20
Protection class	III
Weight	30 g
Dimensions (L x W x H)	60 mm x 30 mm x 30 mm

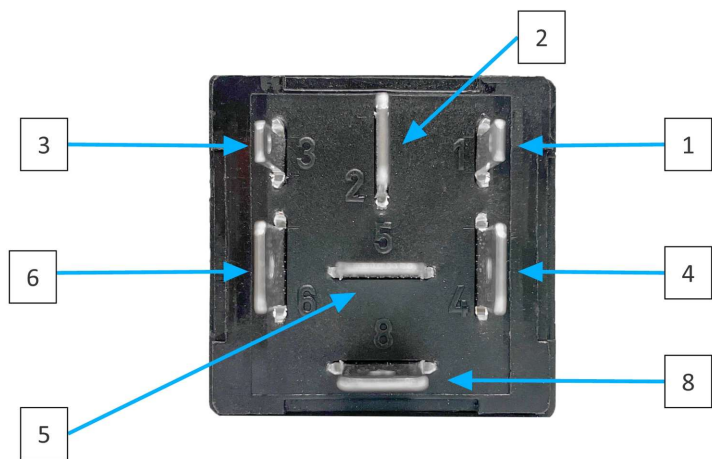
LIN bus parameters

The following commands and information can be transmitted or controlled via the LIN bus system:

Information	Command
230 V AC input current	Switch 230 V on/off
12 V DC input current	
12 V DC output current	
Solar power	
Solar voltage	
Battery temperature	
Battery power	
SoC (state of charge)	
Output power in %	

PIN assignment

CAN-LIN Gateway



Pin	Assignment	Description
1	Terminal 31	Ground (earth)
2	CAN (High)	CAN-Bus High
3	LIN	LIN bus
4	Terminal 31	Ground
5	CAN (Low)	CAN-Bus Low
6	n. a.	Not assigned
8	Terminal 30	12 V DC:

M12 connector of the connection cable (accessories)



PIN	Assignment	Description	Core colour
1	Not assigned		
2	Battery positive	12 V DC:	Black
3	GND	Ground	Brown
4	CAN (High)	CAN-Bus High	Blue
5	CAN (Low)	CAN-Bus Low	Grey

Installation

⚠ WARNING! Risk of injury from electric shock. Disconnect the vehicle negative cable prior to installation.

To install the unit, proceed as follows:

NOTE! To ensure the smooth operation of the CAN-LIN Gateway, make sure that the Gateway and the LPS II are at the same ground potential (GND).

1. Connect pin 2 (CAN (High)) to CAN (High) of the LPS II.
2. Connect pin 5 (CAN (Low)) to CAN (Low) of the LPS II.
3. Connect pin 3 (LIN) to the LIN connection point of the MBAC (Mercedes-Benz Advanced Control).
4. Connect pin 8 (12 V DC) to the 12 V connection point of your vehicle or the LPS II.
5. Connect pin 1 or pin 4 (GND) to the ground of your vehicle or the LPS II.

⇒ The unit is installed.

Disposal



Dispose of the device in accordance with the Waste Electrical and Electronic Equipment Regulations (WEEE).

The system must not be disposed of with household waste. Take it to a recycling point or return it to your point of sale.