

EnOcean-DALI-Gateway, series BL

Interfaces: 1x DALI master, 1x EnOcean master bi-directional

Supply voltage: 230 V AC







The BL-201 EnOcean-DALI-Gateway provides one DALI master with an integrated DALI power supply for the direct connection of up to 10 slaves (lout max.= 20 mA), without a separate DALI power supply. Also an EnOcean wireless transceiver is integrated. This allows the smart and easy integration and combination of DALI ballasts and EnOcean wireless technology. The BL-201 is supplied by 230 V AC line voltage.

Technical data

Interf	aces	and I	0/

DALI master	
Number	1 (master)
Output current DALI	Max. 20mA
Output voltage	16V DC (+/- 5%)
Galvanic isolation	Yes
Connection technology	2 screw terminals, max. 1.5mm ² inflexible, max. 1.0mm ² flexible with cable end sleeves

EnOcean master	
Number	1 (master, bi- directional)
Transceiver	TCM310
Transmit / receive	Yes / yes
Antenna	Integrated

Power supply	
Supply voltage	230 V AC

User interfaces	
Service button	1
Service LED	1, red

Environmental conditions	
Supply voltage	230 V AC / 50 Hz
Power consumption	Typ. 1.4 W, max. 2.0 W
Operating temperature	+5°C to +50°C
Storage temperature	+5°C to +50°C
Humidity	10% to 95%, non condensing

Standards	
	EN 61000-6-2
EN	EN 61000-6-3
	EN 60950:2011
Approvals	CE



Short description

Power supply

The BL-201 is supplied directly by line voltage (230 V AC).

DALI master

The BL-201 provides a DALI master according to the DALI specification. Also a DALI power supply for direct connection of up to 10 slaves is integrated (Imax = 20 mA).

EnOcean Master / bi-directional

The integrated transceiver TCM310 allows the bidirectional communication with EnOcean sensors and control units according to the EnOcean profile specification EEP 2.1.

Service button / service LED

BL-201 has a service button to teach in a sensor or a control unit.

By the internal red service LED, several status information will be displayed.

Functionality of the Gateway / software options

There are different software options available. The hardware is always the same, different functionality is always realized by adopted software. BL-201 can be controlled by an EnOcean switch or also by a control unit. Functionality is described as follows:

SW-Option V00 (BL-201-00-868): Single rocker to control DALI ballasts On / Off / Dim via broadcast

Push service button <= 1 sec.: Sets BL-201 into learn-mode, service LED is steady on:

a) EnOcean switch is pressed: Switch is paired with BL-201

b) Control Unit sends a telegram according EEP "A5-38-9": Control

Unit is paired

Push Service button >= 2 sec.: Service-LED will turn on for 1 sec.: No more switch / control unit is

paired with the BL-201.

Keypress rocker top short: Switch on all ballasts on DALI line

Keypress rocker bottom short: Switch off all ballasts on DALI line

Keypress rocker top long: Brighten of ballasts until key is released or 100% is reached.

Keypress rocker bottom long: Dim of ballasts until key is released or 0% is reached.

Control unit sends telegram: Data byte 2 of the telegram will be send to the DALI slaves by DALI

DAPC / broadcast command to dim all connected slaves (0x00 = 0%

dim level, 0xFE = 100%).



Option V01 (BL-201-01-868): Double-rocker to control 2 addressed DALI ballasts, no broadcast, for example cold / warm white:

Push service button <= 1 sec.: Sets BL-201 into learn-mode, service LED is steady on:

EnOcean switch is pressed: Switch is paired with BL-201

Push Service button >=2 sec.: Service-LED will turn on for 1 sec.: No more switch / control unit is

paired with the BL-201.

Push Service button >=5 sec.: Service-LED will turn on again for 1 sec.: DALI slaves will be

addressed. First two addresses on the DALI line will be configured to

address 0 and 1.

Switch on ballast with address 0 / 1 on DALI line Keypress, rocker 1 / 2, short top

Keypress, rocker 1 / 2, short bottom: Switch on ballast with address 0 / 1 on DALI line

Brighten of ballast with address 0 / 1 until key is released or Keypress, rocker 1 / 2, long top:

100% is reached.

Keypress, rocker 1 / 2, long bottom: Dim of ballasts with address 0 / 1 until key is released or

0% is reached.

Option V02 (BL-201-02-868): Control unit interface, Device Type 8, Colour Control, RGBW via broadcast:

Push service button <= 1 sec.: Sets BL-201 into learn-mode, service LED is steady on. Control unit

sends a telegram according to EEP "A5-38-9" -> control unit is paired

Push Service button >=2 sec.: Service-LED will turn on for 1 sec.: No more control unit is paired

with the BL-201.

Control unit sends telegram: Function code 7: RGB value of the received frame is send to all

connected Device Type 8 DALI slaves as dim level via broadcast

command.

Function code 6: Data byte 3 is used as fading time for all following

colour transitions.



Option V03 (BL-201-03-868): Control unit interface for RGB lights:

Push service button <= 1 sec.: Sets BL-201 into learn-mode, service LED is steady on:

a) EnOcean switch is pressed: Switch is paired with BL-201

b) Control Unit sends a telegram according EEP "A5-38-9": Control

Unit is paired

Push Service button >=2 sec.: Service-LED will turn on for 1 sec.: No more control unit is paired

with the BL-201.

Push Service button >=5 sec.: Service-LED will turn on again for 1 sec.: DALI slaves will be

addressed. First three addresses on the DALI line will be configured to addresses 0 to 2. In case of a combined RGB slave, this is usually

as follows: 0=R, 1=G, 2=B.

Keypress rocker top short: Switch on all ballasts on DALI line. Colour has to be controlled and

set up by a control unit.

Keypress rocker bottom short: Switch off all ballasts on DALI line. Colour has to be controlled and

set up by a control unit.

Keypress rocker top long: Brighten of ballasts until key is released or 100% is reached. Colour

has to be controlled and set up by a control unit.

Keypress rocker bottom long: Dim of ballasts until key is released or 0% is reached. Colour has to

be controlled and set up by a control unit.

Control unit sends telegram: Function code 7: RGB value of the received is send to all connected

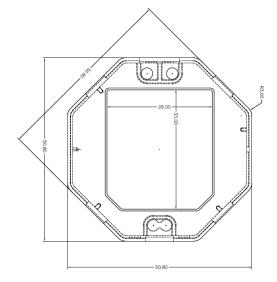
DALI slaves as dim level: DB3 / red to DALI Adr. 0, DB2 / green to

DALI adr. 1 and DB1 / blue to DALI adr. 2.

Function code 6: Data byte 3 is used as fading time for all following

colour transitions (broadcast).

Dimensions: 51 x 51 x 33 mm





Ordering information for BL-201

Short text	Ordering number	Description
BL-201-00-868	11042	BL-201 EnOcean-DALI-Gateway, SW option 00: On / Off / Dim 230 V AC, 868 MHz, in-wall housing
BL-201-01-868	10945	BL-201 EnOcean-DALI-Gateway SW option 01: Cold / warm 230 V AC, 868 MHz, in-wall housing
BL-201-02-868	10985	BL-201 EnOcean-DALI-Gateway SW option 02: Device Type 8 / RGBW 230 V AC, 868 MHz, in-wall housing
BL-201-03-868	11064	BL-201 EnOcean-DALI-Gateway SW option 03: RGB 230 V AC, 868 MHz, in-wall housing