

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

Interfaces	and I/	0'
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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, bidirectional)	
	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
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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 (actually no function in FLEX option). 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 for 3 sec.: 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.

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

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

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

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 telegram 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).

Option V10 (BL-201-10-868): FLEX, configurable by PC-software BL-201-FLEX

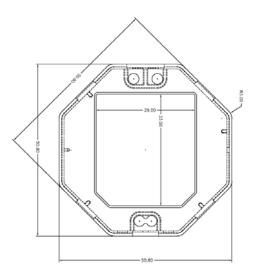
The functionality of the DALI-EnOcean-Gateways with FLEX option is configured using the PC software tool BL-201-FLEX.

In contrast to the other gateway options, instead of fixed functions and assignments, the user can configure DALI groups and scenes. In the next step, he can assign EnOcean rockers to control single DALI ballast, groups, scenes etc.. The wireless communication and the programming between the PC and the BL-201 is realized using an USB EnOcean stick.

For a detailed description of the extensive functionality, please study the documentation of the PC software BL-201-FLEX



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 max. 10 DALI ballasts = 20 mA
BL-201-01-868	10945	BL-201 EnOcean-DALI-Gateway SW option 01: Cold / warm 230 V AC, 868 MHz, in-wall housing max. 10 DALI ballasts = 20 mA
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 max. 10 DALI ballasts = 20 mA
BL-201-03-868	11064	BL-201 EnOcean-DALI-Gateway SW option 03: RGB 230 V AC, 868 MHz, in-wall housing max. 10 DALI ballasts = 20 mA
BL-201-10-868	11214	BL-201 EnOcean-DALI-Gateway SW option 10: FLEX 230 V AC, 868 MHz, in-wall housing max. 10 DALI ballasts = 20 mA