

## EnOcean Equipment Profiles

### REVISION HISTORY

Ver.	Editor	Change	Date
2.6.8	NM	Last xml edition of the EEP-Specification	Dec 31, 2017

Copyright © EnOcean Alliance Inc. (2019). All rights reserved.

The information within this document is the property of the EnOcean Alliance and its use and disclosure are restricted. Elements of the EnOcean Alliance specifications may also be subject to third party intellectual property rights, including without limitation, patent, copyright or trademark rights (such a third party may or may not be a member of the EnOcean Alliance.)

The EnOcean Alliance is not responsible and shall not be held responsible in any manner for identifying or failing to identify any or all such third party intellectual property rights. This document and the information contained herein are provided on an “as is” basis and the EnOcean Alliance disclaims all warranties express or implied, including but not limited to

- (1) any warranty that the use of the information herein will not infringe any rights of third parties (including any intellectual property rights, patent, copyright or trademark rights, or
- (2) any implied warranties of merchantability, fitness for a particular purpose, title or non-infringement.

In no event will the EnOcean Alliance be liable for any loss of profits, loss of business, loss of use of data, interruption of business, or for any other direct, indirect, special or exemplary, incidental, punitive or consequential damages of any kind, in contract or in tort, in connection with this document or the information contained herein, even if advised of the possibility of such loss or damage. All Company, brand and product names may be trademarks that are the sole property of their respective owners.

The above notice and this paragraph must be included on all copies of this document that are made.

The EnOcean Alliance “EnOcean Equipment Profiles definitions” are available free of charge to companies, individuals and institutions for all non-commercial purposes (including educational research, technical evaluation and development of non-commercial tools or documentation.)

This specification includes intellectual property („IPR“) of the EnOcean Alliance and joint intellectual properties („joint IPR“) with contributing member companies. No part of this

## System Specification



specification may be used in development of a product or service for sale without being a participant or promoter member of the EnOcean Alliance and/or joint owner of the appropriate joint IPR.

These errata may not have been subjected to an Intellectual Property review, and as such, may contain undeclared Necessary Claims.

EnOcean Alliance Inc.  
2400 Camino Ramon, Suite 375  
San Ramon, CA 94583  
USA  
Graham Martin  
Chairman & CEO EnOcean Alliance

## D2-40: LED Controller Status

### Description

This family of EEP's is used for sending handling a LED controller device. The status is send periodically, or after product specific event occurred e.g. when one of the parameters from the status message has changed. It allows other devices to monitor LED controller and react to its actions.

### Data exchange

Direction: unidirectional

Addressing: broadcast

Communication trigger: event- & time-triggered

Communication interval: configurable

Trigger event: heartbeat, change of one of the parameters from the status message

Tx delay: -

Rx timeout: -

### Teach-in

Teach-in method: Universal teach-in (UTE)

### Security

Encryption supported: no

Security level format: -

### EEP Family Table:

Supported function	Type 00	Type 01
MsgId	X	X
LED output enabled	X	X
"Demand Response" mode Active	X	X
Daylight Harvesting	X	X
Occupancy state	X	X
Status Tx reason	X	X
Current Dim Level	X	-
Current Dim Level LED R	-	X
Current Dim Level LED G	-	X
Current Dim Level LED B	-	X

Each TYPE has to support every parameter that is marked in its column!

"LED output enabled" parameter is correlated with dimming level – it is set to ENABLE if dimming level is above 0%. 0% dimming level means that the light is completely OFF.

LED controller has a "Demand Response" feature. When DR mode is triggered by external device, "Demand Response" mode Active will be set to TRUE.

Daylight Harvesting feature of the LED controller is also triggered by the external sensor.

Occupancy state is change by occupancy sensor taught in to the LED controller.

DR, Daylight Harvesting, and Occupancy will influence dimming levels, with an algorithm specific to the device that sends the status message.

# System Specification

<b>RORG</b>	D2	<b>VLD Telegram</b>
<b>FUNC</b>	40	LED Controller Status
<b>TYPE</b>	01	Type 0x01

Submitter: EnOcean GmbH

**MsgId 0x01:**Status of RGB LED controller

## MsgId 0x01

DB_3.BIT_7 ← 0 Bit Offset: 0 → 31		DB_3								DB_2								DB_1								DB_0								
		7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
		OUTEN	DRA	DHAR	OCC		SREAS		MI		DLVLR								DLVLG								DLVLB							
										red LED								green LED								blue LED								

Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	1	LED output enabled	OUTEN	Driving LED enabled	Enum: 0: Disabled 1: Enabled		
1	1	"Demand Response" mode Active	DRA	Controller is in the DR mode. It had received a DR command from DR controller, and it is executing it.	Enum: 0: False 1: True		
2	1	Daylight Harvesting Active	DHAR	Daylight harvesting feature is turned on. Readings from photo sensor are influencing the dimming level.	Enum: 0: False 1: True		
3	2	Occupancy State	OCC	Room which controller is in charge of is considered occupied.	Enum: 0: Not occupied 1: Occupied 2: Unknown		
5	1	Status Tx reason	SREAS	Reason for sending this status message	Enum: 0: Other 1: Heartbeat		
6	2	MsgId	MI	Message Id; 0x01	Enum: 1: LED Status RGB		
8	8	Current Dim Level LED R	DLVLR	Current dim level for the red LED	Enum: 0...200: 0...100 % 0xFF: If not used		
16	8	Current Dim Level LED G	DLVLG	Current dim level for the green LED	Enum: 0...200: 0...100 % 0xFF: If not used		
24	8	Current Dim Level LED B	DLVLB	Current dim level for the blue LED	Enum: 0...200: 0...100 % 0xFF: If not used		