

D2 : VLD Telegram

D2 - 41 : Status Data, Sensor Data, Maintenance Data, Light Control

Submitter: Waldmann GmbH

Description

The profiles of this family enable the user to receive status data, sensor data and maintenance data. In addition, the product can be controlled and monitored.

Data exchange

Direction: bidirectional

Timeout: 300

Teach-in

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

EEP Family Table

Each TYPE has to support all telegrams and parameters marked in its column.

Command Overview	00
Get Command	X
Product Status	X
Trigger Unit Operating State	X
Unit Operating State	X
Set Unit Data	X
Unit Status	X
Set Occupancy	X
Presence Data	X
Environmental Data	X
Maintenance Data	X

Parameter Overview	00
Activity Status Luminaires	X
Illumination Mode	X
Dimming Level	X
Colour Temperature	X
Presence	X
Occupancy	X
Operating Hours	X
Error Code	X
Loudness	X
VOC	X
Illumination	X
Temperature	X
Humidity	X

RORG	D2	VLD Telegram
FUNC	41	Status Data, Sensor Data, Maintenance Data, Light Control
TYPE	00	Products with Multisensor and/or Light Units

Description

This type is designed for communication with products with (an) integrated Multi-Sensor and/or light unit(s). This/these module(s) can detect environmental parameters and make them available for further processing .

CMD: Get Command

Data exchange

Direction: to

Addressing: unicast

Communication trigger: event_trigger

Event description: User-defined

Offset	Size	Data	Description	Valid Range	Scale	Unit	Trigger
0	4	Unit Index	Index of Unit connected to EnOcean Module.Can be ignored for "Get Product Status".	Enum: 0 ... 14 : 0 ... 14 15 : Reserved			
4	4	Command ID	Command Identifier	Enum: 0 : Get Product Status 1 : Get Unit Status 2 : Get Presence Data 3 : Get Environmental Data 4 : Get Maintenance Data 5 ... 15 : Reserved			

CMD: Product Status

Data exchange

Direction: from

Addressing: unicast

Communication trigger: response_to_cmd

Offset	Size	Data	Description	Valid Range	Scale	Unit	Trigger
0	4	Not Used (= 0)					
4	4	Command ID	Command Identifier	Enum: 5 : Product Status			
8	1	Not Used (= 0)					
9	1	Unit Activity Status 14	Status of unit 14	Enum: 0 : not active 1 : active			



10	1	Unit Activity Status 13	Status of unit 13	Enum: 0 : not active 1 : active	
11	1	Unit Activity Status 12	Status of unit 12	Enum: 0 : not active 1 : active	
12	1	Unit Activity Status 11	Status of unit 11	Enum: 0 : not active 1 : active	
13	1	Unit Activity Status 10	Status of unit 10	Enum: 0 : not active 1 : active	
14	1	Unit Activity Status 9	Status of unit 9	Enum: 0 : not active 1 : active	
15	1	Unit Activity Status 8	Status of unit 8	Enum: 0 : not active 1 : active	
16	1	Unit Activity Status 7	Status of unit 7	Enum: 0 : not active 1 : active	
17	1	Unit Activity Status 6	Status of unit 6	Enum: 0 : not active 1 : active	
18	1	Unit Activity Status 5	Status of unit 5	Enum: 0 : not active 1 : active	
19	1	Unit Activity Status 4	Status of unit 4	Enum: 0 : not active 1 : active	
20	1	Unit Activity Status 3	Status of unit 3	Enum: 0 : not active 1 : active	
21	1	Unit Activity Status 2	Status of unit 2	Enum: 0 : not active 1 : active	
22	1	Unit Activity Status 1	Status of unit 1	Enum: 0 : not active 1 : active	
23	1	Unit Activity Status 0	Status of unit 0	Enum: 0 : not active 1 : active	

CMD: Trigger Unit Operating State

Data exchange

Direction: to

Addressing: unicast

Communication trigger: event_trigger

Event description: User-defined

Offset	Size	Data	Description	Valid Range	Scale	Unit	Trigger
0	4	Unit Index	Index of Unit connected to EnOcean Module	Enum: 0 ... 14 : 0 ... 14			



				15 :	Reserved		
4	4	Command ID	Command Identifier	Enum:			
				6 :	Trigger Unit Operating State		
8	4	Not Used (= 0)					
12	4	Trigger Operating State	Set Trigger for Target Illumination Mode (if mode with higher index is set, triggered mode is only entered once higher state is terminated)	Enum:			
				0 :	set trigger light off		
				1 :	set trigger reduced light		
				2 :	set trigger working light		
				3 :	set trigger service light		
				4 :	clear trigger light off		
				5 :	clear trigger reduced light		
				6 :	clear trigger working light		
				7 :	clear trigger service light		
				8 ... 14 :	Reserved		
				15 :	no change		

CMD: Unit Operating StateData exchange

Direction: from

Addressing: unicast

Communication trigger: response_to_cmd

Offset	Size	Data	Description	Valid Range	Scale	Unit	Trigger
0	4	Unit Index	Index of Unit connected to EnOcean Module	Enum: 0 ... 14 : 0 ... 14 15 : Reserved			
4	4	Command ID	Command Identifier	Enum: 7 : Switch Unit Operating State			
8	4	Not Used (= 0)					
12	4	Operating State	Current Illumination State	Enum: 0 : off 1 : reduced light 2 : working light 3 : service light 4 ... 14 : Reserved 15 : not supported			

CMD: Set Unit DataData exchange

Direction: to

Addressing: unicast

Communication trigger: event_trigger

Event description: User-defined

Offset	Size	Data	Description	Valid Range	Scale	Unit	Trigger
0	4	Unit Index	Index of Unit connected to EnOcean Module	Enum: 0 ... 14 : 0 ... 14 15 : Reserved			
4	4	Command ID	Command Identifier	Enum: 8 : Set Unit Data			



8	4	Operating State	Illumination Mode	Enum: 0 : off 1 : reduced light 2 : working light 3 : service light 4 ... 14 : Reserved 15 : no change
12	4	Switch control	Switch to indicated illumination mode or store dimming settings	Enum: 0 : store 1 : switch 2 ... 14 : Reserved 15 : not used
16	4	VTL	Biodynamic Light Chronotype	Enum: 0 : off 1 : normal 2 : owl 3 : lark 4 ... 14 : Reserved 15 : no change
20	4	Fading Mode	Fast or slow adjustment to new dimming level	Enum: 0 : direct mode 1 : runtime mode 2 ... 14 : Reserved 15 : not used
24	8	Dimming Level	Dimming Level	Enum: 0 ... 200 : 0 ... 100 % 201 ... 254 : Reserved 255 : no change
32	2	Not Used (= 0)		
34	14	Colour Temp	Colour Temperature	Enum: 0 ... 16000 : 0 ... 16000 K 16001 ... 16381 : Reserved 16382 : out of range 16383 : no change

CMD: Unit StatusData exchange

Direction: from

Addressing: unicast

Communication trigger: event_time_trigger

Event description: Response to Get Unit Status (configurable) and Set Unit Data telegram, change of illumination mode

Timing description: Periodically with a default period of 300 seconds (configurable)

Offset	Size	Data	Description	Valid Range	Scale	Unit	Trigger
0	4	Unit Index	Index of Unit connected to EnOcean Module	Enum: 0 ... 14 : 0 ... 14 15 : no unit connected			
4	4	Command ID	Command Identifier	Enum: 9 : Unit Status			
8	4	Operating State	Illumination Mode	Enum:			X



				0 : off	
				1 : reduced light	
				2 : working light	
				3 : service light	
				4 ... 14 : Reserved	
				15 : not supported	
12	4	Switch Control	Switch to indicated illumination mode or store dimming settings	Enum:	
				15 : not used	
16	4	VTL	Biodynamic Light Chronotype	Enum:	
				0 : off	
				1 : normal	
				2 : owl	
				3 : lark	
				4 ... 14 : Reserved	
				15 : not supported	
20	4	Fading Mode	Fast or slow adjustment to new dimming level	Enum:	
				15 : not used	
24	8	Dimming Level	Dimming Level	Enum:	
				0 ... 200 : 0 ... 100 %	
				201 ... 254 : Reserved	
				255 : not supported	
32	2	Not Used (= 0)			
34	14	Colour Temp	Colour Temperature	Enum:	
				0 ... 16000 : 0 ... 16000 K	
				16001 ... Reserved	
				16382 :	
				16383 : not supported	

CMD: Set Occupancy

Data exchange

Direction: to

Addressing: unicast

Communication trigger: event_trigger

Event description: User-defined

Offset	Size	Data	Description	Valid Range	Scale	Unit	Trigger
0	4	Unit Index	Index of Unit connected to EnOcean Module	Enum: 0 ... 14 : 0 ... 14 15 : Reserved			
4	4	Command ID	Command Identifier	Enum: 10 : Set Occupancy			
8	3	Occupancy	Occupancy State Member 2	Enum: 0 : not occupied 1 : occupied 2 ... 6 : Reserved 7 : no change			
11	3	Occupancy	Occupancy State Member 1	Enum: 0 : not occupied 1 : occupied 2 ... 6 : Reserved 7 : no change			
14	2	Not Used (= 0)					

CMD: Presence Data

Data exchange

Direction: from

Addressing: unicast

Communication trigger: event_time_trigger

Event description: Response to Get Presence Data and Set Occupancy Data, Change of Presence State or Occupancy State (configurable)

Timing description: Periodically with a default period of 300 seconds (configurable)

Offset	Size	Data	Description	Valid Range	Scale	Unit	Trigger
0	4	Unit Index	Index of Unit connected to EnOcean Module	Enum: 0 ... 14 : 0 ... 14 15 : no unit connected			
4	4	Command ID	Command Identifier	Enum: 11 : Presence Data			
8	3	Occupancy	Occupancy State Member 2	Enum: 0 : not occupied 1 : occupied 2 ... 6 : Reserved 7 : not supported			X
11	3	Occupancy	Occupancy State Member 1	Enum: 0 : not occupied 1 : occupied 2 ... 6 : Reserved 7 : not supported			X
14	2	Presence	Presence State	Enum: 0 : no presence detected 1 : presence detected 2 : Reserved 3 : not supported			X

CMD: Environmental Data

Data exchange

Direction: from

Addressing: unicast

Communication trigger: event_time_trigger

Event description: Response to "Get Environmental Data"

Timing description: Periodically with a default period of 300 seconds (configurable)

Offset	Size	Data	Description	Valid Range	Scale	Unit	Trigger
0	4	Unit Index	Index of Unit connected to EnOcean Module	Enum: 0 ... 14 : 0 ... 14 15 : Reserved			
4	4	Command ID	Command Identifier	Enum: 12 : Environmental Data			
8	8	Noise Level	Surrounding Noise Level	Enum: 0 ... 150 : 0 ... 150 dB(A) 151 ... 254 : Reserved			



				255 :	not supported
16	16	VOC	Air Quality (VOC)	Enum:	
				0 ... 65500 :	0 ... 65500 ppb
				65501 ...	Reserved
				65534 :	
				65535 :	not supported
32	1	Not Used (= 0)			
33	15	Illumination	Illumination of the Surroundings	Enum:	
				0 ... 20000 :	0 ... 20000 lx
				20001 ...	Reserved
				32766 :	
				32767 :	not supported
48	1	Not Used (= 0)			
49	7	Temperature	Temperature	Enum:	
				0 ... 100 :	0 ... 50 °C
				101 ... 126 :	Reserved
				127 :	not supported
56	1	Not Used (= 0)			
57	7	Humidity	Rel. Humidity of the Surroundings	Enum:	
				0 ... 100 :	0 ... 100 %
				101 ... 126 :	Reserved
				127 :	not supported

CMD: Maintenance Data

Data exchange

Direction: from

Addressing: unicast

Communication trigger: response_to_cmd

Offset	Size	Data	Description	Valid Range	Scale	Unit	Trigger
0	4	Unit Index	Index of Unit connected to EnOcean Module	Enum:			
				0 ... 14 :	0 ... 14		
				15 :	no unit connected		
4	4	Command ID	Command Identifier	Enum:			
				13 :	Maintenance Data		
8	18	Operating Hours	Total amount of operating hours during product's lifetime	Enum:			
				0 ... 260000 :	0 ... 260000 h		
				260001 ...	Reserved		
				262141 :			
				262142 :	out of range		
				262143 :	not supported		
26	18	Operating Hours Active	Operating hours, during which the product was active	Enum:			
				0 ... 260000 :	0 ... 260000 h		
				260001 ...	Reserved		
				262141 :			
				262142 :	out of range		
				262143 :	not supported		
44	12	Power Consumption	Power Consumption	Enum:			
				0 ... 4000 :	0 ... 400 W		
				4001 ... 4093	Reserved		
				:			
				4094 :	out of range		
				4095 :	not supported		



56	16	Energy Consumption	Total Energy Consumption during product's lifetime	Enum:
				0 ... 65500 : 0 ... 65500 kWh
				65501 ... Reserved
				65533 :
				65534 : out of range
65535 : not supported				