

EnOcean Equipment Profiles

REVISION HISTORY

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

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System Specification



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D2-03: Light, Switching + Blind Control

The EEP family D2-03-xx provides different telegram types for switches, light and blind control. The purpose is to support secure communication and other functional aspects of applications extending the possibilities given by existing profiles (1BS, RPS, 4BS). Transmitting information in the status field of a telegram is not necessary with this EEP family.

RORG	D2	VLD Telegram
FUNC	03	Light, Switching + Blind Control
TYPE	00	Type 0x00

Submitter: EnOcean GmbH

EEP Properties:

DATA EXCHANGE

Direction: unidirectional

Addressing: broadcast

Communication trigger: event-triggered

Communication interval: N/A

Trigger event: N/A

Tx delay: N/A

Rx timeout : N/A

TEACH-IN

Teach-in method: Universal teach-in (UTE) + Secure Teach-in (for secure communication)

SECURITY

Encryption supported: yes

EEP Family Table:

Supported function	Type 00
2 Rocker Switch	X

The encrypted telegram has the R-ORG 0x30. The payload (4 bits) is encrypted. That telegram can be repeated. After decryption and the authentication of the CMAC, the telegram turns into a non-encrypted EnOcean telegram with the R-ORG 0x32. The payload will be expanded to 8 bits (4 MSB set to zero) and can then be interpreted as described in the telegram definition table.

The decrypted telegram may not be repeated as the information is not secure anymore. The following table provides information about the conversion between the profiles D2-03-00 and F6-02-01:

D2-03-00 DATA	F6-02-01 DATA	F6-02-01 STATUS
0...4	-	-
5	0x17	0x30
6	0x70	0x20
7	0x37	0x30
8	0x10	0x20
9	0x15	0x30
10	0x35	0x30
11	0x50	0x30
12	0x70	0x30
13	0x10	0x30
14	0x30	0x30
15	bxxx0xxxx	0x20

System Specification

Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	4	Not Used (= 0)					
4	4	Rocker Information	RI2	Information about pressed rockers (similar to RPS profiles)	Enum:		
					0...4: Reserved		
					5: Button A1 + B0 pressed, energy bow pressed		
					6: 3 or 4 buttons pressed, energy bow pressed		
					7: Button A0 + B0 pressed, energy bow pressed		
					8: No buttons pressed, energy bow pressed		
					9: Button A1 + B1 pressed, energy bow pressed		
					10: Button A0 + B1 pressed, energy bow pressed		
					11: Button B1 pressed, energy bow pressed		
					12: Button B0 pressed, energy bow pressed		
					13: Button A1 pressed, energy bow pressed		
					14: Button A0 pressed, energy bow pressed		
					15: Energy bow released		