

Submitter:

Submitting EnOcean Alliance Member: Roto Frank AG

Membership Level: Participant

Contact Information

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Date of Submission: 2018-09-10 Start of TWG Review: 2018-09-27 Date of Approval: 2018-10-25

EEP Version: 1.5

Last Change: 2019-01-03 Status: APPROVED

Change History:

Date	Version	Author	Description
2018-09-10	1.0	Wittmann	Release
2018-09-20	1.1	Wittmann	Changes after EAC review
2018-09-27	1.2	Wittmann	Small change (Set Command)
2018-10-12	1.3	Wittmann	Changes TWG Review
2018-11-05	1.4	Wittmann	Page 4: TYPE 0x00 -> 0x10
			Page 7: Offset Tilt Cycles corrected
2019-01-03	1.5	N. Metzner	Profile number modified to D2-06-
			20 (due to double allocation of D2-
			06-10)

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EEP Submission

R-ORG	D2	VLD Telegram
FUNC	06	Intelligent door / window
TYPE	20	Electric Window Drive Controller

Description:

This EEP Profile is created for an external connection box, which controls an electric window drive. It is possible to close, tilt or stop the window.

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EEP Properties:

Data exchange

Direction: bidirectional

Timeouts: 300 ms

Teach-in

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

secure communication)

Security

Encryption supported: yes

Security level: RLC, CMAC, AES

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EEP Family Table:

(Only for VLD EEP families)

Command Overview

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

Message ID	TYPE	0x10
0x00	Set	Χ
0x01	Query	Χ
0x02	Status Message	Χ
0x03	Service Message	Χ

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Telegram Definition:

Set

direction: TO

addressing: unicast (ADT)

triggers: event: Position/Timer changes on User Interface

Offset	Size	Bit- range	Data	Short- Cut	Description	Valid Range	Scale	Unit
0	8	DB3.0 - DB3.7	Message ID	MID	Message type	Enumeration 0x00:	ı <u>:</u> Set	
						Enumeration 0x00:	n: Close & Unlock	
		DB2.0		WP	Sets the window position	0x010x64	1100	% tilt
8	8	DB2.0 - DB2.7	Window			Enumeration 0x650xF0 0xFD: 0xFE: 0xFF:		
						0x0000:	Reserved	
16		DB0.0 Aeration AT DB1.7	Aeration		Time the window is	0x0001 0xFD20:	164800	S
	16		tilted for aeration	0xFD21 0xFFFD:	Reserved			
					acration	0xFFFE:	Do not change	
						0xFFFF:	Continuous Aera	tion

Query

direction: TO

addressing: unicast (ADT)

triggers: event: Gateway/User Interface updates values

Offset	Size	Bit- range	Data	Short- Cut	Description	Valid Range	Scale	Unit
0	8	DB1.0 - DB1.7	Message ID	MID	Message type	Enumeration: 0x01:	Query	
8	8	DB0.0 - DB0.7	Response Type	RT	Response type	Enumeration: 0x00: 0x01: 0x020xFF:	Status Service Reserved	

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Status Message

direction: FROM addressing: broadcast triggers: timed,

response to Query,

event: Position changing,

Tilt position change (5%),

Timer change (30s)

Offset	Size	Bit- range	Data	Short- Cut	Description	Valid Range	Scale	Unit
0	8	DB4.0 - DB4.7	Message ID	MID	Message type	Enumeration 0x02:	<u>:</u> Status	
8	8	DB3.0 - DB3.7	Position Status	PS	Current position of the window drive	Enumeration 0x00: 0x01: 0x02: 0x03: 0x04: 0x05: 0x06: 0x07: 0x08: 0x09:	Closed & Locked Move unlocking Move unlocking Move tilting Tilt & Stopped Move closing Move locking Move locking sto Position unknow stopped	stopped
16	8	DB2.0 - DB2.7	Tilt Position	TP	Response of the current tilt position.	0x000x64 0x650xFF:	0100 Reserved	% tilt
24	16	DB0.0 - DB1.7	Remaining Aeration Time	RAT	Feedback of the aeration timer.	0x0000 0xFD20 0xFD21 0xFFFE: 0xFFFF:	064800 Reserved Continuous Aera	s

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Service Message

direction: FROM addressing: broadcast

triggers: response to Query

event: Failure occurs

Offset	Size	Bit- range	Data	Short- Cut	Description	Valid Range	Scale	Unit
0	8	DB3.0 - DB3.7	Message ID	MID	Message type	Enumeration: 0x03:	Service	
8	8	DB2.0 - DB2.7	Failure Code	FC	Indicates current failure	Enumeration: 0x00: 0x01: 0x02: 0x03: 0x04: 0x05: 0x06: 0x070xFF:	No Failure Close Failure Tilt Failure Drive Connect Failure Drive Overcur Drive Timeout Drive Failure Reserved	rent
16	16	DB0.0 - DB1.7	Tilt Cycles	TC	Tilt counter. Value is incremented when window drive changes position from closed to a tilted position.	0x0000 0xFFFF	065535	

Failure Codes:

No failure No failure detected.

Close Failure "Close signal" cannot be send to electric window drive (e.g. connected

light curtain detected an object).

Tilt Failure Tilt signal cannot be send to electric window drive (window is opened

manually).

Drive Connection Failure

Drive Overcurrent

Electric window drive connection failure. Please check connection cable. Electric window drive overcurrent shutdown (window fitting is stiffed or

olocked).

Drive Timeout Electric window drive did not reach position during a specific time

(window fitting is stiffed).

Drive Failure Internal failure. Open window manually. Remove drive and send in for

repair.

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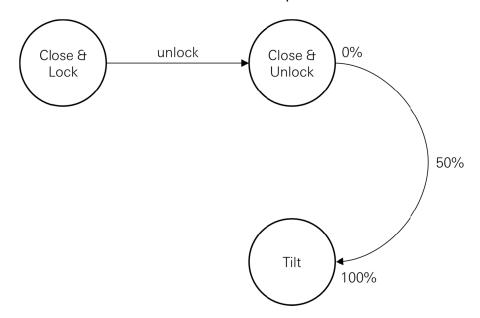


Appendix:

Roto E-Tec Drive:

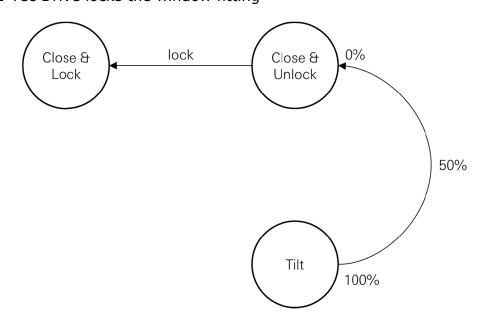
Closed -> Tilt:

- 1. E-Tec Drive unlocks the window fitting (tilt position 0%)
- 2. E-Tec Drive tilts the window to a defined position between 1%-100%



Tilt -> Closed:

- 1. E-Tec Drive pulls the window to tilt position 0%
- 2. E-Tec Drive locks the window fitting



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EEP Guidelines (Checklist)	\boxtimes
Check for latest EEP Submission template	
Check for equal /similar profiles to be used (within the latest EEP Specification document)	
Check for new, approved profiles to be used (on the EnOcean Alliance platform)	
Check for existing profile families to integrate a new profile	
Usage of UTE and VLD for bidirectional profiles	
Usage of UTE for every VLD profile	
Definition of addressing type (broadcast or unicast / addressed telegrams [ADT])	
Description of all data fields	
Description of all enumerated values	
Description of all binary values	
No optional parameters or data fields	
No undefined bits (every bit marked as used or 'reserved')	
Data byte order down from DBx.7 to DB0.0	
Full support of defined value ranges by the application	
Transmission direction referenced for all unidirectional messages within bidirectional profiles	
Response timeouts for bidirectional communication documented	
Documentation of message dependencies (e.g. request & response)	
Summary of all supported parameters within the EEP family table	
Have IP Representation of EEP Profile	
automatic check box → only a mouse click	

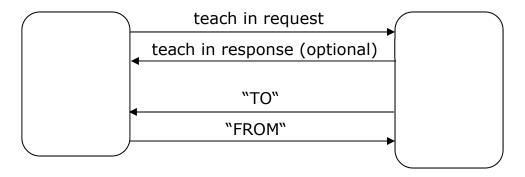
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Direction Definition:

For EEP commands a direction has to be specified. There are two valid directions "FROM" and "TO". This id defined by the device that sent the teach-in request.



Device on the left typically is an actor or a sensor. Device on the right typically is a Gateway

FROM: mainly used for 'response' or 'status' messages TO: mainly used for 'set' or 'get/query' messages

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