System Specification



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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D2-20: Fan Control

The EEP family D2-20-xx provides different telegram types for fan control and fan supervision messages using various parameters and variables.

Devices using this EEP family may include a master-slave function (for further description see subheading 'Master-slave function').

EEP Properties:

DATA EXCHANGE
Direction: bidirectional

Addressing: unicast (ADT) + broadcast Communication trigger: event-triggered

Communication interval: N/A Trigger event: query / polling

Tx delay: N/A Rx timeout : N/A

TEACH-IN

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

SECURITY

Encryption supported: no Security level: none

EEP Family Table:

Supported function	Type 00	Type 01	Type 02
Fan Speed	X	X	Χ
Fan Speed Status	X	Χ	Χ
Humidity	X	-	-
Humidity Control	X	-	-
Humidity Control Status	X	-	X
Humidity Threshold	Х	-	-
Message Type	X	X	X
Operating Mode	Х	-	-
Operating Mode Status	Х	Х	-
Room Size	X	X	Χ
Room Size Reference	X	Х	Χ
Room Size Reference Status	Х	Х	X
Room Size Status	Х	Х	X
Service Information	Х	-	-
Temperature Level	Х	-	-

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

Master-slave function:

A device using this EEP may be able to work as a master or a slave fan. Master fans control slave fans. Slave fans are controlled by master fans. These roles are defined during the teach-in process. A slave fan will always be taught-in to a master. A master fan will accept teach-in requests from slave fans. A fan that is taught-in to another device will from now on work as a slave. A fan that accepted the teach-in of another device will go on working as a master. Combining master fans is not possible. Not every device is able to work as a master and a slave. Certain fans might only be able to be used as slaves.

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RORG	D2	VLD Telegram
FUNC	20	Fan Control
TYPE	02	Type 0x02

Submitter: Maico Elektroapparate-Fabrik GmbH

Telegram Definition: 'Fan Control Message'

* Devices with discrete fan speed levels instead of a continuous fan speed range should divide the full range linearly and match values beside those discrete levels to the next lower fan speed level

	match values beside those discrete levels to the next lower fan speed level. set Size Data ShortCut Description Valid Range Scale Unit					
Offset			ShortCut	Description	Valid Rang	e Scale Unit
0	7	Not Used (= 0)				
7	1	Message Type	MT	Defines the message type	Enum:	
					0: Fan c	ontrol
8	2	Not Used (= 0)				
10	2	Room Size RSR Reference	RSR	Defines if the provided room size has to be considered	Enum:	
					0: Used	
					1: Not u	ısed
					2: Defa	ult
					3: No ch	nange
12	4	Room Size	RS	Defines the room size	Enum:	
					0: < 25	m²
					1: 25	50 m²
					2: 50	75 m²
					3: 75	100 m²
					4: 100	.125 m²
					5: 125	.150 m²
					6: 150	.175 m²
						.200 m²
					8: 200	.225 m²
					l ———	.250 m²
					10: 250	
					11: 275	
					12: 300	
					13: 325	
					14: > 35	
		-			15: No ch	nange
16 8 Not Used (= 0)						
24	8	Fan Speed *	FS	Sets the fan speed	Enum:	
					0100:	0100%
						Reserved
					101252:	
					253:	Auto
					254:	Default
					255:	No
						change

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Telegram Definition: 'Fan Status Message'

Offset	Size	Data	ShortCut	Description	Valid Range Scale Unit	
0	7	Not Used (= 0)				
7	1	Message Type	МТ	Defines the message type	Enum: 1: Fan status	
8	2	Humidity Control Status	HCS	States if the humidity control is active	Enum: 0: Disabled 1: Enabled 2: Reserved 3: Not supported	
10	2	Room Size Reference	RSR	States if the provided room size has to be considered	Enum: 0: Used 1: Not used 2: Reserved 3: Not supported	
12	4	Room Size Status	RSS	Room size status	Enum: 0: < 25 m² 1: 2550 m² 2: 5075 m² 3: 75100 m² 4: 100125 m² 5: 125150 m² 6: 150175 m² 7: 175200 m² 8: 200225 m² 9: 225250 m² 10: 250275 m² 11: 275300 m² 12: 300325 m² 13: 325350 m² 14: > 350 m² 15: Not supported	
16	8	Not Used (= 0)				
24	8	Fan Speed Status	FSS	Fan speed	Enum: 0100: 0100% Reserved	
					101254: 255: Not supported	

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