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	X
Fan Speed Status	X	X	X
Humidity	X	-	-
Humidity Control	X	-	-
Humidity Control Status	X	-	X
Humidity Threshold	X	-	-
Message Type	X	X	X
Operating Mode	X	-	-
Operating Mode Status	X	X	-
Room Size	X	X	X
Room Size Reference	X	X	X
Room Size Reference Status	X	X	X
Room Size Status	X	X	X
Service Information	X	-	-
Temperature Level	X	-	-

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.

RORG	D2	VLD Telegram
FUNC	20	Fan Control
TYPE	00	Type 0x00

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.

Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	4	Operating Mode	OM	Sets the operating mode	Enum: 0: Disabled 1: Standard compliant 2...14: Reserved 15: No change		
4	1	Not Used (= 0)					
5	2	Temperature Level	TL	Status of the temperature supervision	Enum: 0: Too low 1: Normal 2: Too high 3: No change		
7	1	Message Type	MT	Defines the message type	Enum: 0: Fan control		
8	2	Humidity Control	HC	Activates the humidity control	Enum: 0: Disabled 1: Enabled 2: Default 3: No change		
10	2	Room Size Reference	RSR	Defines if the provided room size has to be considered	Enum: 0: Used 1: Not used 2: Default 3: No change		
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 7: 175...200 m² 8: 200...225 m² 9: 225...250 m² 10: 250...275 m² 11: 275...300 m² 12: 300...325 m² 13: 325...350 m² 14: > 350 m² 15: No change		

16	8	Humidity Threshold	HT	Sets the humidity threshold	Enum: 0...100: 0...100% 101...252: Reserved 253: Auto 254: Default 255: No change
24	8	Fan Speed *	FS	Sets the fan speed	Enum: 0...100: 0...100% 101...252: Reserved 253: Auto 254: Default 255: No change

Telegram Definition : 'Fan Status Message'

Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	4	Operating Mode Status	OMS	Provides the recent operating mode	Enum: 0: Disabled 1: Standard compliant 2...14: Reserved 15: Not supported		
4	3	Service Information	SI	Service information	Enum: 0: Nothing to report 1: Air filter error 2: Hardware error 3...6: Reserved 7: Not supported		
7	1	Message Type	MT	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: 25...50 m² 2: 50...75 m² 3: 75...100 m² 4: 100...125 m² 5: 125...150 m² 6: 150...175 m² 7: 175...200 m² 8: 200...225 m² 9: 225...250 m² 10: 250...275 m² 11: 275...300 m² 12: 300...325 m² 13: 325...350 m² 14: > 350 m² 15: Not supported
16	8	Humidity	HUM	Humidity measurement	Enum: 0...100: 0...100% 101...254: Reserved 255: Not supported
24	8	Fan Speed Status	FSS	Fan speed	Enum: 0...100: 0...100% 101...254: Reserved 255: Not supported