

EnOcean Equipment Profiles

REVISION HISTORY

V	/er.	Editor	Change	Date
2	.6.8	NM	Last xml edition of the EEP-Specification	Dec 31, 2017

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EnOcean Alliance Inc. 2400 Camino Ramon, Suite 375 San Ramon, CA 94583 USA Graham Martin Chairman & CEO EnOcean Alliance



D2-50: Heat Recovery Ventilation

Submitter: Glen Dimplex

Description

The EEP family D2-50-XX provides different telegram types for heat-recovery ventilation control and status messages using various parameters and variables.

There are 4 types of messages:

- Ventilation Remote Transmission Request Message

- Ventilation Control Message
- Ventilation Basic Status Message
- Ventilation Extended Status Information Message

Data exchange

Direction: bidirectional Addressing: unicast (ADT) + broadcast Communication trigger: event- & time-triggered Communication interval: min. 1s (not more than once per second on events), max. 5s (heartbeat)

Trigger event: heartbeat 5s on reception of 'Ventilation Control Message' query / polling by 'Ventilation Remote Transmission Request Message' on value change at ... - "Operating Mode Status"

- "Digital Input 0...15 Status"
- "Digital Output 0...15 Status"
- "Info Message 0...15 Status"
- "Fault 0...31 Status"

Tx delay: -Rx timeout: -

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

Security Encryption supported: no Security level format: -

EEP Family Table

TYPE 00: single room ventilation unit TYPE 01: single room ventilation unit with pre-heater TYPE 02...09: reserved for future single room variants TYPE 10: multi room ventilation unit without bypass TYPE 11: multi room ventilation unit with bypass TYPE 12...xx: reserved for future multi room variants



Supported function	Type 00	Type 01	Type 10	Type 11
Message Type	х	х	х	Х
Requested Message Type	х	х	х	х
Direct Operation Mode Control	Х	х	х	Х
Operation Mode Control	х	х	х	х
Timer Operation Mode Control	х	х	х	х
CO2 Threshold	х	х	х	х
Heat Exchanger Bypass Control	-	-	-	х
Humidity Threshold	х	х	х	х
Air Quality Threshold	Х	х	х	х
Room Temperature Threshold	-	-	х	х
Operation Mode Status	Х	х	х	х
Safety Mode Status	-	-	-	х
Heat Exchanger Bypass Status	-	-	-	х
Supply Air Flap Position	Х	х	-	-
Exhaust Air Flap Position	Х	х	-	-
Defrost Mode Status	Х	Х	х	Х
Cooling Protection Status	Х	х	х	х
Outdoor Air Heater Status	-	х	х	х
Supply Air Heater Status	-	-	х	х
Drain Heater Status	х	х	-	-
Timer Operation Mode Status	Х	х	х	Х
Filter Maintenance Status	Х	х	х	х
Weekly Timer Program Status	-	-	х	х
Room Temperature Control Status	-	-	х	х
Air Quality Sensor 1	Х	Х	х	х
Master/Slave Status	Х	х	-	-
Air Quality Sensor 2	-	-	х	х
Outdoor Air Temperature	Х	х	х	х
Supply Air Temperature	х	х	х	х
Indoor Air Temperature	-	-	х	Х
Exhaust Air Temperature	-	-	х	х
Supply Air Fan Air Flow Rate	Х	Х	х	Х
Exhaust Air Fan Air Flow Rate	х	х	х	х
Supply Fan Speed	Х	Х	х	Х
Exhaust Fan Speed	Х	х	х	х
Software Version Info	Х	Х	х	х
Operation Hours Counter	Х	х	х	х
Digital Input 015 Status	-	-	х	х
Digital Output 015 Status	-	-	х	х
Info Message 015 Status	Х	Х	Х	х
Fault 031 Status	Х	Х	х	Х

The list of parameters could be structured following the features that always include a certain group of parameters.

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



RORG	D2	VLD Telegram
FUNC	50	Heat Recovery Ventilation
ТҮРЕ	00	Type 0x00

Submitter: Glen Dimplex

Telegram Definition: 'Ventilation Remote Transmission Request Message'

The 'Ventilation Remote Transmission Request Message' queries a particular status message from the heat-recovery ventilation unit. Thus status messages can be obtained at any time or at a higher update rate than the heartbeat rate, e.g. during commissioning.

Direction: Gateway --> Heat-recovery ventilation unit



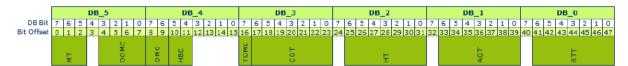
Offset	Size	Data S	ShortCut	Description	Va	lid Range	Scale	Unit
0	3	Message Type M	1T	Defines the message type	Enum	:		
					0:	Ventilation r transmission		
					1:			
					2:	Ventilation I	pasic statu	IS
					3:	Ventilation e status	extended	
					4:	Reserved		
						Reserved		
						Reserved		
					7:	Reserved		
3	2	Not Used (= 0)						
5	3		RMT	Defines the message type, which is	Enum:			
		Message Type		requested by the remote device	0:	Ventilation I	oasic statu	IS
					1:	Ventilation of status	extended	
					2:	Reserved		
					3:	Reserved		
					4:	Reserved		
				5:	Reserved			
					6:	Reserved		
					7:	Reserved		



Telegram Definition: 'Ventilation Control Message'

The 'Ventilation Control Message' changes the operating mode, the state of several actuators and a subset of control parameters.

Direction: Gateway --> Heat-recovery ventilation unit



Offset	Size	Data	ShortCut	Description	V	alid Range	Scale U	Init
0	3	Message Type	МТ	Defines the message type	Enum	:		
					0:	Ventilation ren request	note transmissio	n
					1:	Ventilation cor	ntrol	
					2:	Ventilation bas	sic status	
					3:	Ventilation ext	ended status	
					4:	Reserved		
					5:	Reserved		
					6:	Reserved		
					7:	Reserved		
3	1	Not Used (= 0)						
4	4	Direct Operation	DOMC	Selects ventilation mode/level	Enum	:		
		Mode Control			0:	Off		
					1:	Level 1		
					2:	Level 2		
					3:	Level 3		
					4:	Level 4		
					5:	Reserved		
					6:	Reserved		
					7:	Reserved		
					8:	Reserved		
					9:	Reserved		
					10:	Reserved		
					11:	Automatic		
					12:	Automatic on	demand	
					13:	Supply air only	у	
					14:	Exhaust air on	hly	
					15:	No action (kee ventilation mo		
nOcear	Equir	ment Profiles				Ventilation 110	Page 6	/13



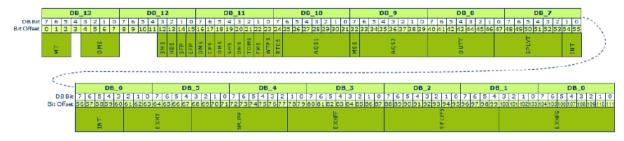
8	2	Operation Mode	OMC	Selects the next resp. previous	Enum:
		Control		available ventilation mode/level	0: No action
					1: Select next operation mode (edge-trigger)
					2: Select previous operation mode (edge-trigger)
					3: Reserved
10	2	Heat Exchanger Bypass Control	HBC	Manual override of automatic heat exchanger bypass control	Enum: 0: No action
				3 71	1: Close bypass (edge-trigger)
					2: Open bypass (edge-trigger)
					3: Reserved
12	4	Not Used (= 0)			
16	1	Timer Operation	томс	Enables Timer Operation Mode,	Enum:
		Mode Control		i.e. a particular ventilation mode is activated for a defined time	0: No action
					1: Start timer operation mode (edge-trigger)
17	7	CO2 Threshold	сот	Overrides CO2 threshold for CO2	Enum:
				control in automatic mode	0100: 0100 %
					Reserved
					101126:
					127: Default (use threshold configured in device)
24	1	Not Used (= 0)			configured in device)
25	7	Humidity	нт	Overrides humidity threshold for	Enum:
		Threshold		humidity control in automatic mode	0100: 0100 %
					Reserved 101126:
					127: Default (use threshold configured in device)
32	1	Not Used (= 0)			
33	7	Air Quality	AQT	Overrides air quality threshold for	Enum:
		Threshold		air quality control in automatic mode	0100: 0100 %
					Reserved 101126:
					127: Default (use threshold configured in device)
40	1	Not Used (= 0)			
41	7	Room	RTT	Overrides room temperature	Enum:
		temperature		threshold for room temperature	
		threshold		control mode	1127: -63+63 °C
					0: Default - use
					threshold
					configured in



Telegram Definition: 'Ventilation Basic Status Message'

The 'Ventilation Basic Status Message' provides current sensor values and internal control status information. It is triggered once at power-on and on particular value changes. Additionally this message is available on request.

Direction: Heat-recovery ventilation unit --> Gateway



Offset	Size	Data	ShortCut	Description	Valid	Range	Scale	Unit
0	3	Message Type	MT	Defines the message type	Enum	:		
					0:	Ventilat	ion remote	
						transmi	ssion reques	t
					1:	Ventilat	ion control	
					2:	Ventilat	ion basic sta	itus
					3:	Ventilat status	ion extended	1
					4:	Reserve	d	
					5:	Reserve	d	
					6:	Reserve	d	
					7:	Reserve	:d	
3	1	Not Used (= 0)						
4	4	Operation Mode	OMS	Shows current Operation Mode Status	Enum	:		
		Status			0:	Off		
					1:	Level 1		
]]				2:	Level 2		
					3:	Level 3		
					4:	Level 4		
					5:	Reserve	ed	
					6:	Reserve	ed	
					7:	Reserve	ed	
					8:	Reserve	ed	
					9:	Reserve	ed	
					10:	Reserve	ed	
					11:	Automa	tic	
					12:	Automa	tic on dema	nd
						Supply		
							t air only	
						Reserve		
8	4	Not Used (= 0)		•				

.



12	1	Safety Mode Status	SMS	Indicates if device is running in	Enum	:
				fireplace safety mode	0:	Fireplace safety mode disabled
					1:	Fireplace safety mode enabled
13	1	Heat Exchanger	HBS	Indicates heat exchanger bypass	Enum	:
		Bypass Status		status	0:	Bypass closed (heat- recovery active)
					1:	Bypass opened (heat- recovery inactive)
14	1	Supply Air Flap	SFP	Supply Air Flap Position	Enum	:
		Position			0:	Supply air flap closed
					1:	Supply air flap opened
15	1	Exhaust Air Flap	EFP	Exhaust Air Flap Position	Enum	:
		Position			0:	Exhaust air flap closed
					1:	Exhaust air flap opened
16	1	Defrost Mode	DMS	Indicates if device is running in defrost	Enum	:
		Status		mode, i.e. automatic defrosting of heat	0:	Defrost mode inactive
				exchanger is active	1:	Defrost mode active
17	1	Cooling Protection	CPS	Indicates if device is running in cooling	Enum	:
		Status		protection	0:	Cooling protection mode inactive
					1:	Cooling protection mode
10	-				- -	active
18	1	Outdoor Air Heater Status	OHS	Outdoor Air Heater Status	Enum	
		Status			0:	Inactive
19	1	Supply Air Heater	SHS	Supply Air Heater Status	Enum	
		Status			0:	Inactive
					1:	Active
20	1	Drain Heater	DHS	Drain Heater Status	Enum	
	-	Status	2		0:	Inactive
					1:	Active
21	1	Timer Operation	томѕ	Indicates timer operation mode status	Enum	
	1	Mode Status	.0110	indicates time operation mode status	0:	timer operation mode
					0.	inactive
					1:	timer operation mode active
22	1	Filter Maintenance	FMS	Filter Maintenance Status	Enum	
	1	Status			0:	Maintenance not
						required
					1:	Maintenance required
23	1	Weekly Timer	WTPS	Indicates if weekly timer program is	Enum	:
		Program Status		active (i.e. if device is running	0:	Weekly timer program
				according to configured program)		disabled or not configured



					1: Weekly active	y timer progra	am	
24	1	Room Temperature	RTCS	Indicates room temperature control	Enum:			
		Control Status		status		temperature I inactive		
						temperature I active		
25	7	Air Quality Sensor	AQS1	Current air quality sensor 1	Enum:			
		1		measurement value	0100:	0100 %		
					101126:	Reserved		
					127:	Not available		
32	1	Master/Slave	MSS	Indicates whether device is configured	Enum:			
		Configuration Status		as master or slave unit	0: Master			
		Status			1: Slave			
33	7	Air Quality Sensor	AQS2	Current air quality sensor 2	Enum:			
		2	m	measurement value	0100:	0100 %		
					101126:	Reserved		
					127:			
40	7	Outdoor Air Temperature	ουττ	Current outdoor air temperature	0127	-64+63	°C	
47	7	Supply Air Temperature	SPLYT	Current supply air temperature	0127	-64+63	°C	
54	7	Indoor Air Temperature	INT	Current indoor air temperature	0127	-64+63	°C	
61	7	Exhaust Air Temperature	EXHT	Current exhaust air temperature	0127	-64+63	°C	
68	10	Supply Air Fan Air Flow Rate	SPLYFF	Current supply air fan air flow rate setpoint	01023	01023	m3/h	
78	10	Exhaust Air Fan Air Flow Rate	EXHFF	Current exhaust air fan air flow rate setpoint	01023	01023	m3/h	
88	12	Supply Fan Speed	SPLYFS	Current supply air fan speed	04095	04095	1/min	
100	12	Exhaust Fan Speed	EXHFS	Current exhaust air fan speed	04095	04095	1/min	

Telegram Definition: 'Ventilation Extended Status Message'

The 'Ventilation Extended Status Message' provides additional information, e.g. active failure information. It is triggered once at power-on and on particular value changes. Additionally, this message is available on request.

Direction: Heat-recovery ventilation unit --> Gateway





Offset	size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	3	Message Type	МТ	Defines the message type	Enum:		
						on remote sion request	
						on control	
					2: Ventilati	on basic status	S
					3: Ventilati status	on extended	
					4: Reserve	d	
	1				5: Reserve	d	
					6: Reserve	d	
					7: Reserve	d	
3	1	Not Used (= 0)			L		
4	12	Software Version	SVI	Shows Software Version Information	04095	04095	-
		Info					
16	16	Operation Hours Counter	OHC	Indicates device operation hours	065535	0196605	h
32	16	Digital Input	DIS	Indicates the current state of digital	Enum:		
		015 Status		inputs 015 of the device		it no. 00 active	
				input assignment depends on device	0x0002: Inpu	it no. 01 active	e
				variant and configuration	0x0004: Inpu	it no. 02 active	e
				-	0x0008: Inpu	it no. 03 active	e
					0x0010: Inpu	it no. 04 active	e
						it no. 05 active	
						it no. 06 active	
						it no. 07 active	
						it no. 08 active	
						it no. 09 active	
						it no. 10 active	
						it no. 11 active	
					· · · · · ·	it no. 12 active	
						it no. 13 active	
					· · · · · ·	it no. 14 active it no. 15 active	
49	16	Digital Output	DOC	Indicates the surrent state of digital		10. 15 active	
48	16	015 Status	DOS	Indicates the current state of digital outputs 015 of the device	Enum:	out no. 00 activ	
		onito otatao			·	out no. 01 activ	
				output assignment depends on device		out no. 02 activ	
				variant and configuration	·	out no. 02 activ	
					·	out no. 04 activ	
					·	out no. 05 activ	
						out no. 06 activ	
					· · · · · · · · · · · · · · · · · · ·	out no. 07 activ	
						out no. 08 activ	
					·	out no. 09 activ	
						out no. 10 activ	
					0x0800: Out	out no. 11 activ	ve
					0x1000: Out	out no. 12 activ	ve
					0x2000: Out	out no. 13 activ	ve
					0x4000: Out	out no. 14 activ	ve
					0x8000: Out	out no. 15 activ	ve



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