

### **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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# enocean alliance No Wires. No Batteries. No Limits.

### **System Specification**

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**EnOcean Equipment Profiles** 





### **D2-11: Bidirectional Room Operating Panel**

TYPE 01,02,03,04,05,06,07,08 Submitter: Thermokon Sensortechnik GmbH

TYPE 20 Submitter: Menred GmbH

#### **EEP Family Table:**

Supported Function of Type	01	02	03	04	05	06	07	08	20
Temperature Measurement	Х	Х	Х	Х	Х	Х	Х	Х	-
Setpoint	Х	Х	Х	Х	Х	Х	Х	Х	-
Humidity Measurement	-	Х	-	Х	ı	Х	-	Х	-
Fan Speed	-	-	Х	Х	Х	Х	-	-	-
Occupancy	-	-	-	-	Х	Х	Х	Х	-
Air Condition / FanCoil	-	-	-	-	ı	-	-	-	Х
Floor Heating	-	-	-	-	ı	1	-	-	Х
Fan Ventilation	-	-	-	-	ı	-	-	-	Х
Temperature Sensor	-	-	-	-	ı	ı	-	-	Х
Humidity Sensor	-	-	-	-	ı	-	-	-	-
Blind	-	-	-	-	ı	-	-	-	-
Dimming	-	-	-	-	-	-	-	-	-
PIR	-	-	-	-	-	-	-	-	-
LUX	-	-	-	-	-	-	-	-	-

For the types 0x01, 0x03, 0x05, 0x07 the value of DB3 at message type C will be 0 = not available. For the types 0x01, 0x02, 0x07, 0x08 the value of DB0.3 ... DB0.1 at message type B and C will be 7 = not available. For the types 0x01, 0x02, 0x03, 0x04 the value of DB0.0 at message type C has to be 0 = not used.

RORG	D2	VLD Telegram
FUNC	11	Bidirectional Room Operating Panel
TYPE	20	Type 0x20

#### Submitter: Menred GmbH

Data exchange

Direction: bidirectional Addressing: unicast (ADT)

Communication trigger: data change event-triggered / time-triggered

Communication interval: send interval adjustment, minimum 5 sec., maximum 30 min.

Trigger event: sensor data changes or key set data

Tx delay: N/A (maximum response time)

Rx timeout: N/A (minimum time between two received messages)

Teach-in

Teach-in method: Smart-Ack teach-in

Security

Encryption required: no Security level format: N/A

#### Description

This EEP is intended to be used for a Room Control Panel (RCP) offering the following features:

- Multi symbol, multi segment LCD display (or equivalent)
- Repeater operation shall work in compliance with the Smart Ack specification

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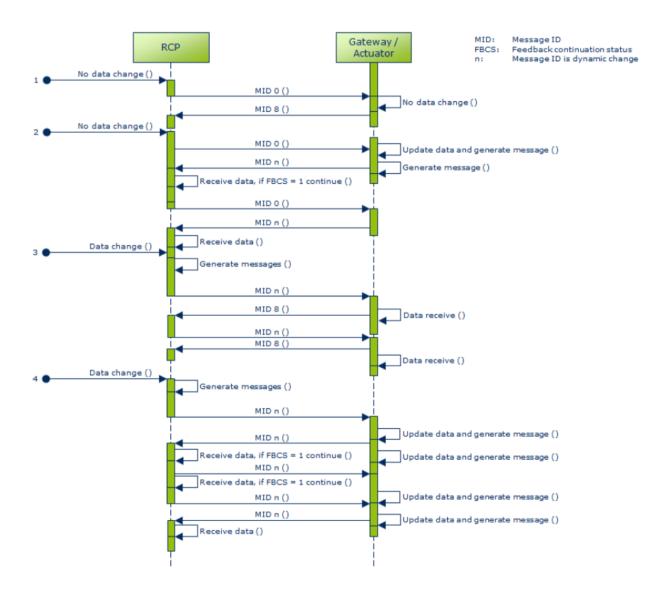
This VLD family consists of several profiles for a group of different RCPs with various functions and measurements (see following table of parameters for a feature list). The profiles are designed to establish a communication between a battery-powered room control panel and a line-powered (and therefor always receiving) gateway. It also allows a gateway-to-gateway communication. Due to the high energy consumption while powering the receiver, the room control panel will always be the initiator of a data exchange. It cannot be triggered by the gateway as it is not in a receiving mode most of the time.

If RCP does not receive the gateway message, RCP attempts to resend it, and if it fails two consecutive times, the fault code hint is displayed. Key or temperature change RCP will try to resend it once, and if the communication resumes, clear the fault code.

#### SmartAck usage and sematics

The Communication is based on the Smart Ack concept. Some basics related hereto are included in this document for convenience but for details please consult the Smart Ack specification.

- 1. Button press Modify setting value sends message
- 2. Periodic automatic sending time is determined by the Send interval setting, can be set by the RCM button, or through the gateway through the message settings; Reference messages 4 and 12
- 3. Room temperature changes will also send messages



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#### Messages ID Definitions & Directions

Message ID	Message: RCP to Gateway/Actor
3	Heartbeat message
4	Sensor values and Data set-point message
5	Sensor and battery data message (period sample and transmit)
6	Data set-points message (key set event)
7	Install set-points message (parameter store at RCP)

Message ID	Message: Gateway/Actor to RCP
8	Reply message
9	Sensor values and Data set-point message
10	Gateway/actuator data status
11	Gateway/actuator's data set-points message
12	Install set-points message

### Message ID 3

Direction: RCP -> Gateway/Actuator

	Mes	ssa	ge I	ID :	3											
Data Byte	DB_0															
DB Bit	7	7 6 5 4 3 2 1 0														
Bit Offset	0	1	2	3	4	5	6	7								
Data	TTP					2	Ē									

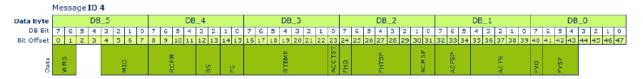
Offset	Size	Data	ShortCut	Description	Valid	Range	Scale	Unit
0	1	Telegram Type	TTP	Telegram Type	Enum	:		
					0:	Heartbe	eat	
					1:	Gatewa	y settir	ng
1	3	Not Used (= 0	)					
4	4	Message ID	MID	Message ID-3	Enum	:		
					3:	ID-3		

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#### Message ID 4

Direction: RCP -> Gateway/Actuator



Offset	Size	Data	ShortCut	Description	Valid Range Scale Unit
0	2	Work Mode	WMS		Enum:
		Symbol		AirCondition / FanCoil, FanVentilation	0: FloorHeating symbol
					1: AirCondition symbol
					2: FanVentilation symbol
					3: Reserved
2	2	Not Used (= 0)			
4	4	Message ID	MID	Message ID-4	Enum:
					4: ID-4
8	4	Room Controller	RCPM	RCP mode selector for control	Enum:
		Panel Mode		messages and data synchronization	0: FloorHeating +
					AirCondition +
					FanVentilation
					1: FloorHeating
					2: AirCondition
					3: FanVentilation
					4: FloorHeating +
					AirCondition
					5: FloorHeating + FanVentilation
					6: AirCondition +
					FanVentilation
					Reserved
					715:
12	2	Battery Status	BS		Enum:
					0: Solar powered
					1: Backup batteryPowered
					2: Backup batteryLow
					3: Backup batteryEmpty
14	2	Failure Code	FC	RCP exception status	Enum:
					0: NoError

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					1: Temperature sensor error
					23: Reserved
16	7	Room Temperature	RTEMP		Enum:
10		Room remperature	KILIII		050: °C
					050
					51127: Reserved
23	1	Air Condition	ACCTST		Enum:
		Contact State			0: False
					1: True
24	1	Floor Heating	FHO	If the room is occupied the floor	Enum:
		Occupany / Power		heating is on, if it is unoccupied the	0: Unoccupied/Off
				floor heating is off	1: Occupied/On
25	5	Floor Heating	FHTSP		Enum:
		Temperature			030: °C
		Setpoint			535
					31: Reserved
30	2	Air Condition Mode	ACMSP		Enum:
		Setpoint			0: Off
					1: Cooling
					2: Heating
					3: Auto
32	3	Air Condition Fan	ACFSP		Enum:
		Setpoint			0: Auto
					1: Off (Stage 0)
					2: Low (Stage 1)
					3: Medium (Stage 2)
					4: High (Stage 3)
					57: Reserved
35	5	Air Condition	ACTS		Enum:
		Temperature Setting			030: °C
		octung			535
	1.				31: Reserved
40	1	Floor Ventilation Occupany / Power	FVO	If the room is occupied the Fan Ventilation is on, if it is unoccupied	Enum:
		occupany / Power		the Fan Ventilation is off	0: Unoccupied/Off
			E1 10 E		1: Occupied/On
41	3	Fan Ventilation Setpoint	FVSP		Enum:
		Serbollit			0: Auto
					1: Off (Stage 0)
					2: Low (Stage 1)
					3: Medium (Stage 2)
					4: High (Stage 3)
4.4	4	Not Head ( 0)			57: Reserved
44	4	Not Used (= 0)			

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#### Message ID 5

Direction: RCP -> Gateway/Actuator

#### Message ID 5

Data Byte				DB	_2							DB	_1				DB_0									
DB Bit	DB Bit 7 6 5 4 3 2 1 0 7							7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0			
Bit Offset	0	1	2	3	4	5	6	7	8	3 9 10 11 12			12	13	14	15	16	17	18	19	20	21	22	23		
Data		S E				QI N	i i			0	Σ Σ		0 0	מ	U	,				RTEMP				ACCTST		

Offset	Size	Data	ShortCut	Description	Valid Range Scale Unit								
0	2	Work Mode	WMS	RCP display symbol as	Enum:								
		Symbol		FloorHeating, AirCondition /	0: FloorHeating symbol								
				FanCoil, FanVentilation	1: AirCondition symbol								
					2: FanVentilation symbol								
					3: Reserved								
2	2	Not Used (= 0)											
4	4	Message ID	MID	Message ID-5	Enum:								
·	ľ	ricosage 15		Tressage 15 5	5: ID-5								
8	4	Room Controller	RCPM	RCP mode selector for control	Enum:								
0	7	Panel Mode	KCFFI	messages and data synchronization									
		T difer 1 lode		messages and data syntamenization	0: FloorHeating + AirCondition + FanVentilation								
					1: FloorHeating								
					1. Hoorreading								
					2: AirCondition								
					21 7 III SSTIGICION								
					3: FanVentilation								
					4: FloorHeating + AirCondition								
					5: FloorHeating +								
					FanVentilation								
					6: AirCondition +								
					FanVentilation								
					Reserved								
10	2	Datta Chat	D.C.		715:								
12	2	Battery Status	BS		Enum:								
					0: Solar powered								
					1: Backup batteryPowered								
					2: Backup batteryLow								
					3: Backup batteryEmpty								
14	2	Failure Code	FC	RCP exception status	Enum:								
					0: NoError								
					1: Temperature sensor error								
					23: Reserved								
16	7	Room	RTEMP		Enum:								
		Temperature			050: °C								
					050								
					51127: Reserved								
23	1	Air Condition	ACCTST		Enum:								
		Contact State			0: False								
					1: True								
					I lide								

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### Message ID 6

Direction: RCP -> Gateway/Actuator

#### Message ID 6

Data Byte				DB	_3					DB_2										DB	_1				DB_0							
DB Bit	DB Bit 7 6 5 4 3 2 1 0							0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Bit Offset	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Data	0 80 00					-	E C			0	X 7		FVO		FVSP		FHO			FHTSP			0	AC III OK		ACFSP				ACTS		

Offset	Size	Data	ShortCut	Description	Valid Range Scale Unit
0	2	Work Mode Symbol	WMS	RCP display symbol as FloorHeating,	Enum:
				AirCondition / FanCoil, FanVentilation	0: FloorHeating symbol
					1: AirCondition symbol
					2: FanVentilation symbol
					3: Reserved
2	2	Not Used (= 0)			
4	4	Message ID	MID	Message ID-6	Enum:
					6: ID-6
8	4	Room Controller Panel Mode	RCPM	RCP mode selector for control messages and data synchronization	Enum:
		Parier Mode		messages and data synchronization	0: FloorHeating + AirCondition +
					FanVentilation
					1: FloorHeating
					2: AirCondition
					3: FanVentilation
					4: FloorHeating + AirCondition
					5: FloorHeating +
					FanVentilation
					6: AirCondition +
					FanVentilation
					Reserved 715:
12	1	Fan Ventilation	FVO	If the room is occupied the Fan	Enum:
		Occupany / Power		Ventilation is on, if it is unoccupied the Fan Ventilation is off	0: Unoccupied/Off
				the Fan Venthation is on	1: Occupied/On
13	3	Fan Ventilation	FVSP		Enum:
		Setpoint			0: Auto
					1: Off (Stage 0)
					2: Low (Stage 1)
					3: Medium (Stage 2)
					4: High (Stage 3)
					57: Reserved

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16	1	Floor Heating Occupany / Power	FHO	If the room is occupied the floor heating is on, if it is unoccupied the floor heating is off	Enum: 0: Unoccupied/Off 1: Occupied/On
17	5	Floor Heating Temperature Setpoint	FHTSP		Enum:  030: °C  535  31: Reserved
22	2	Air Condition Mode Setpoint	ACMSP		Enum:  0: Off  1: Cooling  2: Heating  3: Auto
24	3	Air Condition Fan Setpoint	ACFSP		Enum:  0: Auto  1: Off (Stage 0)  2: Low (Stage 1)  3: Medium (Stage 2)  4: High (Stage 3)  57: Reserved
27	5	Air Condition Temperature Setting	ACTS		Enum:  030: °C  535  31: Reserved

### Message ID 7

Direction: RCP -> Gateway/Actuator

	Me	550	ige	ıυ	•																																			
Data Byte		DB_4								DB	_3							DB	_2							DB	_1							DB	_0					
DB Bit	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Bit Offset	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Bit Offset 0 1 2 3				:	9			200	E		.550		CTC			SSC			_		040	OCK		2.			200	٥ د ٧		<b>CCTST</b>				HTSR			CTSR			

Offset	Size	Data	ShortCut	Description	Val	lid Range	Scale	Unit
0	4	Not Used (= 0)						
4	4	Message ID	MID	Message ID-7	Enum: 7:	ID-7		
8	4	Room Controller Panel Mode		RCP mode selector for control messages and data synchronization	1: 2: 3: 4: 5: 6: 715:	FloorHeating AirCondition FanVentilatin FloorHeating AirCondition FanVentilatin FloorHeating AirCondition FloorHeating FanVentilatin FloorHeating FanVentilatin FanVentilatin AirCondition FanVentilatin Reserved	0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 +	

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12	1	Temperature Sensor	TSSO	Select between a remote sensor or	Enum:
12	1	Select Option	1330	a built-in sensor	
		Sciecc option		a bane in sensor	0: Built-in sensor
					1: Remote sensor
13	3	Auto Transmit Period	ATC	RCP send message period	Enum:
					0: 5 minutes
					1: 5 seconds
					2: 30 seconds
					3: 1 minute
					4: 3 minutes
					5: 10 minutes
					6: 15 minutes
					7: 30 minutes
16	3	Sensor Sample	SSC	RCP sample period	Enum:
		Period			0: 3 minutes
					1: 1 second
					2: 10 seconds
					3: 30 seconds
					4: 1 minute
					6: 10 minutes
					7: 30 minutes
19	2	Air Condition Type	ACT	Choose between cooling, cooling	Enum:
		Option		and heating, or auto cooling and heating	0: Off, Cooling, Heating, Fan
					1: Off, Cooling, Fan
					2: Off, Cooling, Heating, Fan, Auto
					3: Reserved
21	2	Air Condition Fan	ACFO	Choose the fan speed	Enum:
	_	Speed Option			0: Auto Low Medium High
					1: Auto Low High
					2: Low High
22	1	Look Mode	LOCK	When Lede made 1 DCD	3: High
23	1	Lock Mode	LOCK	When Lock mode = 1, RCP manual can modify only occupany/on/off	
				function	0: Unlock
					1: Lock
24	2	Fan Ventilation Speed	FVS	Choose the fan speed type	Enum:
		Option		according to the fan speed option	0: Auto Low Medium High
					1: Auto Low High
					2: Low High
					3: High
26	1	Not Used (= 0)			
27	4	Room Temperature	TSCV		Enum:
		Correct Value			014: °C
					-77
					15: Reserved
31	1	Air Condition Contact	ACCTST		Enum:
		State			0: False
					1: True
22	2	Not Used (= 0)			1. 1140
32	2	Not Used (= 0)			

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34	3	Floor Heating Temperature Range	FHTSR	Enum:
		Setting		0: 5 35 °C 1: 10 30 °C 2: 10 25 °C 3: 10 20 °C 4: 10 15 °C 5: 15 30 °C
				6: 15 25 °C 7: 15 20 °C
37	3	Air Condition Temperature Range Setting	ACTSR	Enum:  0: 5 35 °C  1: 10 30 °C  2: 10 25 °C  3: 10 20 °C  4: 10 15 °C  5: 15 30 °C  6: 15 25 °C  7: 15 20 °C

### Message ID 8

Direction: Gateway/Actuator -> RCP

	Mes	ssa	ge .	ID	8							
Data Byte				DB	_0							
DB Bit	7	6	5	4	3	2	1	0				
Bit Offset	0 1 2 3 4 5 6											
Data	MCF	RIN	100	Ē		2	È					

Offset	Size	Data	ShortCut	Description	Val Ran		Scale	Unit
0	1	Message Continuation Flag	MCF	Indicates if another telegram has to be expected or if the message is complete	Enum: 0: 1:	Comp	lete iplete	
1	1	Run Init Sequence	RIN	Indicates if the Gateway / actuator requires more messages to be initialized	0:	False True	_	
2	2	Message Type	MT		Enum: 0:	Gatev	vay	
					1:	Floori	Heating	)
					2:	AirCo	ndition	
					3:	FanVe	entilatio	on
4	4	Message ID	MID	Message ID-8	Enum: 8:	ID-8		

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#### Message ID 9

Direction: Gateway/Actuator -> RCP

Message ID 9

Data Byte		DB_4									DB	_3							DB	_2							DB	_1							DB	_0				
DB Bit	7	6	5	4	3	2.	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Bit Offset	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Data	MCF	RIN		Ξ			OI M		0	0	FHO			FHTSP			0000	ACEDA		ACFSP			PVSP				ACTS			PVO	0 20 30	0 0				RTOV				_

Offset	Size	Data	ShortCut	Description	Valid Range   Scale   Unit
0	1	Message	MCF	Indicates if another telegram has to be	Enum:
		Continuation Flag		expected or if the message is complete	0: Complete
					1: Incomplete
1	1	Run Init Sequence	RIN	Indicates if the Gateway / actuator	Enum:
				requires more messages to be initialized	0: False
					1: True
2	2	Message Type	MT		Enum:
					0: Gateway
					1: FloorHeating
					2: AirCondition
					3: FanVentilation
4	4	Message ID	MID	Message ID-9	Enum:
	_			D. J. D. D. C. J.	9: ID-9
8	2	Exception Status	ES	Displays on the RCP if there is an error in the actuator	
				the accuator	0: NoError
					1: Remote temperature
					sensor error
					Reserved
					23:
10	1	Floor Heating	FHO	If the room is occupied the floor heating	Enum:
		Occupany / Power		is on, if it is unoccupied the floor heating is off	0: Unoccupied/Off
				13 011	1: Occupied/On
11	5	Floor Heating	FHTSP		Enum:
		Temperature Setpoint			030: °C
		осероние			535
1.0	2	Air Condition	A CNACD		31: Reserved
16	2	Air Condition Mode Setpoint	ACMSP		Enum:
		riode octponic			0: Off
					1: Cooling 2: Heating
					2: Heating 3: Auto
18	3	Air Condition Fan	ACFSP		
10	3	Setpoint	ACFSF		Enum: 0: Auto
					1: Off (Stage 0)
					2: Low (Stage 1)
					2. Low (Stage 1)

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	3: Medium (Stage 2)
	4: High (Stage 3)
	57: Reserved
21 3 Fan Ventilation FVSP	Enum:
Setpoint	0: Auto
	1: Off (Stage 0)
	2: Low (Stage 1)
	3: Medium (Stage 2)
	4: High (Stage 3)
	57: Reserved
24 5 Air Condition ACTS	Enum:
Temperature	030: °C
Setting	535
	31: Reserved
29 1 Fan Ventilation FVO If the room is occupied the f	
Occupancy / Ventilation is on, if it is unoc	ccupied the 0: Unoccupied/Off
Power Fan Ventilation is off	1: Occupied/On
30 2 Work Mode WMS RCP display symbol as Floor	Heating, Enum:
Symbol AirCondition / FanCoil, FanVo	entilation, 0: FloorHeating symbol
sensor	1: Air Condition symbol
	2: FanVentilation symbol
	3: Reserved
32 7 Remote RTOV If remote temperature is en	
Temperature external sensor value select	
Original Value control, the built-in sensor is	s disabled 050
	51127: Reserved
39 1 Not Used (= 0)	

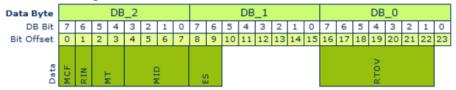
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#### Message ID 10

Direction: Gateway/Actuator -> RCP

#### Message ID 10



Offset	Size	Data	ShortCut	Description	Valid Range Scale Unit
0	1	Message Continuation Flag	MCF	Indicates if another telegram has to be expected or if the message is complete	Enum: 0: Complete
					1: Incomplete
1	1	Run Init Sequence	RIN	Indicates if the Gateway / actuator	Enum:
				requires more messages to be initialized	0: False
					1: True
2	2	Message Type	MT		Enum:
					0: Gateway
					1: FloorHeating
					2: AirCondition
		M TD	MAZE	W	3: FanVentilation
4	4	Message ID	MID	Message ID-10	Enum:
0	2	Fueration Status	ES	Displace on the DCD if there is an array	10: ID-10
8	2	Exception Status	E5	Displays on the RCP if there is an error in the actuator	Enum:
				in the decidion	0: NoError
					1: Remote temperature sensor error
					Reserved 23:
10	6	Not Used (= 0)			
16	7	Remote	RTOV	If remote temperature is enable, the	Enum:
		Temperature		external sensor value select display and	050: °C
		Original Value		control, the built-in sensor is disabled	050
					51127: Reserved
23	1	Not Used (= 0)			

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#### Message ID 11

Direction: Gateway/Actuator -> RCP

#### Message ID 11

Data Byte				DB	_3							DB	_2							DB	_1							DB	_0			
DB Bit	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Bit Offset	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Data	MCF	RIN	H	Ē		9	316		PVO		FVSP				0 20 00	Ε	FHO			FHTSP			000	70 E D X		ACFSP				ACTS		

Offset	Size	Data	ShortCut	Description	Valid Rang	ge Scale Unit
0	1	Message	MCF	Indicates if another telegram has to be	Enum:	
		Continuation Flag		expected or if the message is complete	0: Comp	lete
						nplete
1	1	Run Init Sequence	RIN	Indicates if the Gateway / actuator	Enum:	
				requires more messages to be initialized	0: False	
					1: True	
2	2	Message Type	MT		Enum:	
					0: Gate	vay
					1: Floor	Heating
					2: AirCo	ndition
					3: FanVe	entilation
4	4	Message ID	MID	Message ID-11	Enum:	
					11: ID-11	
8	1	Fan Ventilation	FVO	If the room is occupied the Fan Ventilation	Enum:	
		Occupany / Power		is on, if it is unoccupied the Fan Ventilation	0: Unoc	cupied/Off
				is off	1: Occu	oied/On
9	3	Fan Ventilation	FVSP		Enum:	
		Setpoint			0: Auto	)
					1: Off (	Stage 0)
					2: Low	(Stage 1)
					Z. LOW	(Stage 1)
					3: Med	ium (Stage
					2)	
					4: High	(Stage 3)
					Rese 57:	erved
12	2	Not Used (= 0)			J/.	
14	2	Work Mode Symbol	WMS	RCP display symbol as FloorHeating,	Enum:	
14	_	Work Plode Symbol	11110	AirCondition / FanCoil, FanVentilation		Heating
					symb	
						ondition
					symb	
						entilation
					symb	
					3: Reser	ved

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16	1	Floor Heating	FHO	If the room is occupied the floor heating is	Enum:	
10	-	Occupany / Power		on, if it is unoccupied the floor heating is	0:	Unoccupied/Off
		1 77		off	1:	Occupied/On
17	5	Floor Heating	FHTSP		†	
17	5	Temperature	гптэг		Enum:	
		Setpoint			030	: 535 °C
	_				31:	
22	2	Air Condition Mode	ACMSP		Enum:	
		Setpoint			0:	Off
					1:	Cooling
					2:	Heating
					3:	Auto
24	3	Air Condition Fan	ACFSP		Enum:	
		Setpoint			0:	Auto
					1:	Off (Stage 0)
					2:	Low (Stage 1)
					3:	Medium (Stage 2)
					4:	High (Stage 3)
						Reserved
					57:	
27	5	Air Condition	ACTS		Enum:	
		Temperature Setting				
					030	535 °C
					31:	Reserved

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### Message ID 12

Direction: Gateway/Actuator -> RCP

#### Message ID 12

Data Byte				DB	_4							DB	_3							DB	_2							DB	_1							DB.	_0			
DB Bit	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Bit Offset	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Data	MCF	RIN		Ε			OI E			200	Z		TSSO		ATC			SSC		L	ACFO	LOCK	ACCTST	H	AC.	9	>			TSCV	,					FHTSR			ACTSR	

Offset	Size	Data	ShortCut	Description	Valid	Range	Scale	Unit
0	1	Message	MCF	Indicates if another telegram has	Enum:			
		Continuation Flag		to be expected or if the message		mplete		
				is complete	1: Inc	complete		
1	1	Run Init Sequence	RIN	Indicates if the Gateway / actuator				
		·		requires more messages to be		lse		
				initialized	1: Tru			
2	2	Message Type	MT		Enum:			
					0: Ga	iteway	_	
						orHeating	_	
					2: Air	Condition	_	
					3: Fa	nVentilation	_	
4	4	Message ID	MID	Message ID-12	Enum:			
					12: ID	-12		
8	4	Room Controller	RCPM	RCP mode selector for control	Enum:			
		Panel Mode		messages and data	0: F	loorHeating -	+	
				synchronization	Α	irCondition +	-	
					F	anVentilation		
					1: F	loorHeating		
					2: A	irCondition		
					3: F	anVentilation		
					э. г	anventilation	l	
					4: F	loorHeating	+	
						irCondition		
					5: F	loorHeating	+	
						anVentilation		
						irCondition -		
						anVentilation teserved	1	
					715:	eserved		
12	1	Temperature Sensor	TSSO	Select between a remote sensor or	+			
		Select Option	1000	a built-in sensor		ıilt-in sensor	<del></del>	
						mote sensor		
13	3	Auto Transmit Period	ATC	RCP send message period	Enum:	222 20001		
				The series incoording period	I	minutes		
						seconds		
						seconds		
						minute		
						minutes		
						minutes		
						minutes		
						minutes		

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Period	um:
	): 3 minutes
	l: 1 second
	2: 10 seconds
	3: 30 seconds
	4: 1 minute
	5: 5 minutes
	5: 10 minutes
	7: 30 minutes
Constant Continu	um:
	: Auto Low Medium High
	L: Auto Low High
	2: Low High
	3: High
21   1   Lock Mode   LOCK   When Lock mode = 1, RCP manual En	um:
can modify ony occupany/on/off	): Unlock
function	l: Lock
22 1 Air Condition Contact ACCTST En	um:
Ctoto	): False
	L: True
Ontion / land hasting an auto scaling and	um:
heating	): Off, Cooling, Heating, Fan
	L: Off, Cooling, Fan
	L. On, cooming, ran
	2: Off, Cooling, Heating, Fan,
	Auto Cooling and Heating
	3: Reserved
	7. Reserved
	um:
25 2 Fan Ventilation FVS Choose the fan speed type En	um:
25 2 Fan Ventilation FVS Choose the fan speed type according to the fan speed option	): Auto Low Medium High
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option	D: Auto Low Medium High L: Auto Low High
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option	2: Auto Low Medium High 2: Auto Low High 2: Low High
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option	D: Auto Low Medium High L: Auto Low High
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option   27 1 Not Used (= 0)	2: Auto Low Medium High 2: Auto Low High 3: High
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option 27 1 Not Used (= 0) 28 4 Room Temperature TSCV En	2: Auto Low Medium High 2: Auto Low High 3: High 4: High
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option   27 1 Not Used (= 0)  28 4 Room Temperature TSCV En	2: Auto Low Medium High 2: Low High 3: High 4: Migh 5: High 6: Migh 7: Migh 7: Migh 8:
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0)  28 4 Room Temperature Correct Value TSCV	2: Auto Low Medium High 2: Auto Low High 3: High 4: O14: °C -77
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0)  28 4 Room Temperature Correct Value TSCV  En (	2: Auto Low Medium High 2: Low High 3: High 4: Migh 5: High 6: Migh 7: Migh 7: Migh 8:
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0)  28 4 Room Temperature Correct Value  32 2 Not Used (= 0)	2: Auto Low Medium High 2: Auto Low High 3: High 4: O14: °C -77
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0)  28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0)  34 3 Floor Heating FHTSR  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the	2: Auto Low Medium High 2: Low High 3: High  um: 014: °C -77  15: Reserved
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0)  28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0)  34 3 Floor Heating Temperature Range FHTSR  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed type according to the fan speed option  En Choose the fan speed opt	2: Auto Low Medium High 2: Low High 3: High  um: 014: °C -77  L5: Reserved
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0) 28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0) 34 3 Floor Heating Temperature Range Setting	2: Auto Low Medium High 2: Low High 3: High  um: 014: °C -77  15: Reserved
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0)  28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0)  34 3 Floor Heating Temperature Range Setting  FHTSR  En  ()	2: Auto Low Medium High 2: Low High 3: High  um: 014: °C -77  15: Reserved  um: 0: 5 35 °C
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0)  28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0)  34 3 Floor Heating Temperature Range Setting  FHTSR  En  ()	2: Auto Low Medium High 2: Low High 3: High  um: 014: °C -77  15: Reserved  um: 0: 5 35 °C 1: 10 30 °C
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0)  28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0)  34 3 Floor Heating Temperature Range Setting  FHTSR  En  ()	2: Auto Low Medium High 2: Low High 3: High  um: 014: °C -77  15: Reserved  um: 0: 5 35 °C 1: 10 30 °C 2: 10 25 °C 3: 10 20 °C
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0) 28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0) 34 3 Floor Heating Temperature Range Setting  FHTSR  En  (a)	2: Auto Low Medium High 2: Low High 3: High  um: 014: °C -77  15: Reserved  um: 0: 5 35 °C 1: 10 30 °C 2: 10 25 °C 3: 10 20 °C
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option   27 1 Not Used (= 0) 28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0) 34 3 Floor Heating Temperature Range Setting  FHTSR  En (	2: Auto Low Medium High 2: Low High 3: High  um: 014: °C -77  15: Reserved  um: 0: 5 35 °C 1: 10 30 °C 2: 10 25 °C 3: 10 20 °C 4: 10 15 °C 5: 15 30 °C
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option   27 1 Not Used (= 0) 28 4 Room Temperature Correct Value FHTSR  32 2 Not Used (= 0) 34 3 Floor Heating Temperature Range Setting  FHTSR  FHTSR  En (= 0)  En	2: Auto Low Medium High 2: Low High 3: High  um: 014: °C -77  15: Reserved  um: 0: 5 35 °C 1: 10 30 °C 2: 10 25 °C 3: 10 20 °C 4: 10 15 °C 5: 15 30 °C 5: 15 30 °C
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0) 28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0) 34 3 Floor Heating Temperature Range Setting  FHTSR  En ()	2: Auto Low Medium High 2: Low High 3: High  um: 014: °C -77  15: Reserved  um: 0: 5 35 °C 1: 10 30 °C 2: 10 25 °C 3: 10 25 °C 4: 10 15 °C 5: 15 30 °C 7: 15 20 °C
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0) 28 4 Room Temperature Correct Value  32 2 Not Used (= 0) 34 3 Floor Heating Temperature Range Setting  FHTSR  FHTSR  En ()  28 4 Floor Heating Temperature Range Setting  FHTSR  En ()	2: Auto Low Medium High 2: Low High 3: High  um: 014: °C -77  15: Reserved  um: 0: 5 35 °C 1: 10 30 °C 2: 10 25 °C 3: 10 20 °C 4: 10 15 °C 5: 15 30 °C 7: 15 20 °C um:
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0)  28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0)  34 3 Floor Heating Temperature Range Setting  FHTSR  En ()  ()  ()  ()  ()  ()  ()  ()  ()  ()	0: Auto Low Medium High 1: Auto Low High 2: Low High 3: High  um: 014: °C -77  15: Reserved  um: 0: 5 35 °C 1: 10 25 °C 3: 10 20 °C 4: 10 15 °C 5: 15 30 °C 7: 15 20 °C um: 0: 5 35 °C
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0)  28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0)  34 3 Floor Heating Temperature Range Setting  FHTSR  En ()  ()  ()  ()  ()  ()  ()  ()  ()  ()	0: Auto Low Medium High 1: Auto Low High 2: Low High 3: High  um: 014: °C -77  15: Reserved  um: 0: 5 35 °C 1: 10 25 °C 3: 10 25 °C 4: 10 15 °C 5: 15 30 °C 6: 15 30 °C 7: 15 25 °C 7: 15 20 °C um: 0: 5 35 °C 1: 10 30 °C
25	2: Auto Low Medium High 2: Low High 3: High  um: 2:
25	2: Auto Low Medium High 2: Low High 3: High  um: 2:
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0) 28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0) 34 3 Floor Heating Temperature Range Setting  FHTSR  En ()  ()  ()  ()  ()  ()  ()  ()  ()  ()	2: Auto Low Medium High 2: Low High 3: High   um: 2: Low High 3: High  um: 2: -77  L5: Reserved  um: 2: 5 35 °C 2: 10 25 °C 3: 10 20 °C 4: 10 15 °C  5: 15 30 °C 2: 15 30 °C 2: 10 25 °C 3: 10 20 °C 4: 10 15 °C 3: 15 25 °C 7: 15 20 °C 4: 10 30 °C 2: 10 25 °C 4: 10 30 °C 4: 10 30 °C 4: 10 30 °C 4: 10 30 °C
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0) 28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0) 34 3 Floor Heating Temperature Range Setting  FHTSR  En ()  37 3 Air Condition Temperature Range Setting  ACTSR  En ()	2: Auto Low Medium High 2: Low High 3: High  4: Auto Low High 3: High  4: Auto Low High 4: Common High 5: Low High 6: High  5: High  6: 77  6: Reserved  6: 10 30 °C 6: 10 25 °C 7: 15 20 °C 7: 15 20 °C 6: 10 30 °C 6: 10 30 °C 6: 10 30 °C 6: 15 35 °C 7: 15 20 °C 6: 10 25 °C 7: 15 20 °C 6: 10 30 °C 6: 15 30 °C 6: 15 30 °C
25 2 Fan Ventilation Speed Option FVS Choose the fan speed type according to the fan speed option  27 1 Not Used (= 0) 28 4 Room Temperature Correct Value TSCV  32 2 Not Used (= 0) 34 3 Floor Heating Temperature Range Setting  FHTSR  En ()  37 3 Air Condition Temperature Range Setting  ACTSR  En ()	2: Auto Low Medium High 2: Low High 3: High   um: 2: Low High 3: High  um: 2: -77  L5: Reserved  um: 2: 5 35 °C 2: 10 25 °C 3: 10 20 °C 4: 10 15 °C  5: 15 30 °C 2: 15 30 °C 2: 10 25 °C 3: 10 20 °C 4: 10 15 °C 3: 15 25 °C 7: 15 20 °C 4: 10 30 °C 2: 10 25 °C 4: 10 30 °C 4: 10 30 °C 4: 10 30 °C 4: 10 30 °C

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