EnOcean Equipment Profiles

REVISION HISTORY

Ver.	Editor	Change	Date
2.6.8	NM	Last xml edition of the EEP-Specification	Dec 31, 2017

specification may be used in development of a product or service for sale without being a participant or promoter member of the EnOcean Alliance and/or joint owner of the appropriate joint IPR.

These errata may not have been subjected to an Intellectual Property review, and as such, may contain undeclared Necessary Claims.

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

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	X	X	X	X	X	X	X	X	-
Setpoint	X	X	X	X	X	X	X	X	-
Humidity Measurement	-	X	-	X	-	X	-	X	-
Fan Speed	-	-	X	X	X	X	-	-	-
Occupancy	-	-	-	-	X	X	X	X	-
Air Condition / FanCoil	-	-	-	-	-	-	-	-	X
Floor Heating	-	-	-	-	-	-	-	-	X
Fan Ventilation	-	-	-	-	-	-	-	-	X
Temperature Sensor	-	-	-	-	-	-	-	-	X
Humidity Sensor	-	-	-	-	-	-	-	-	-
Blind	-	-	-	-	-	-	-	-	-
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

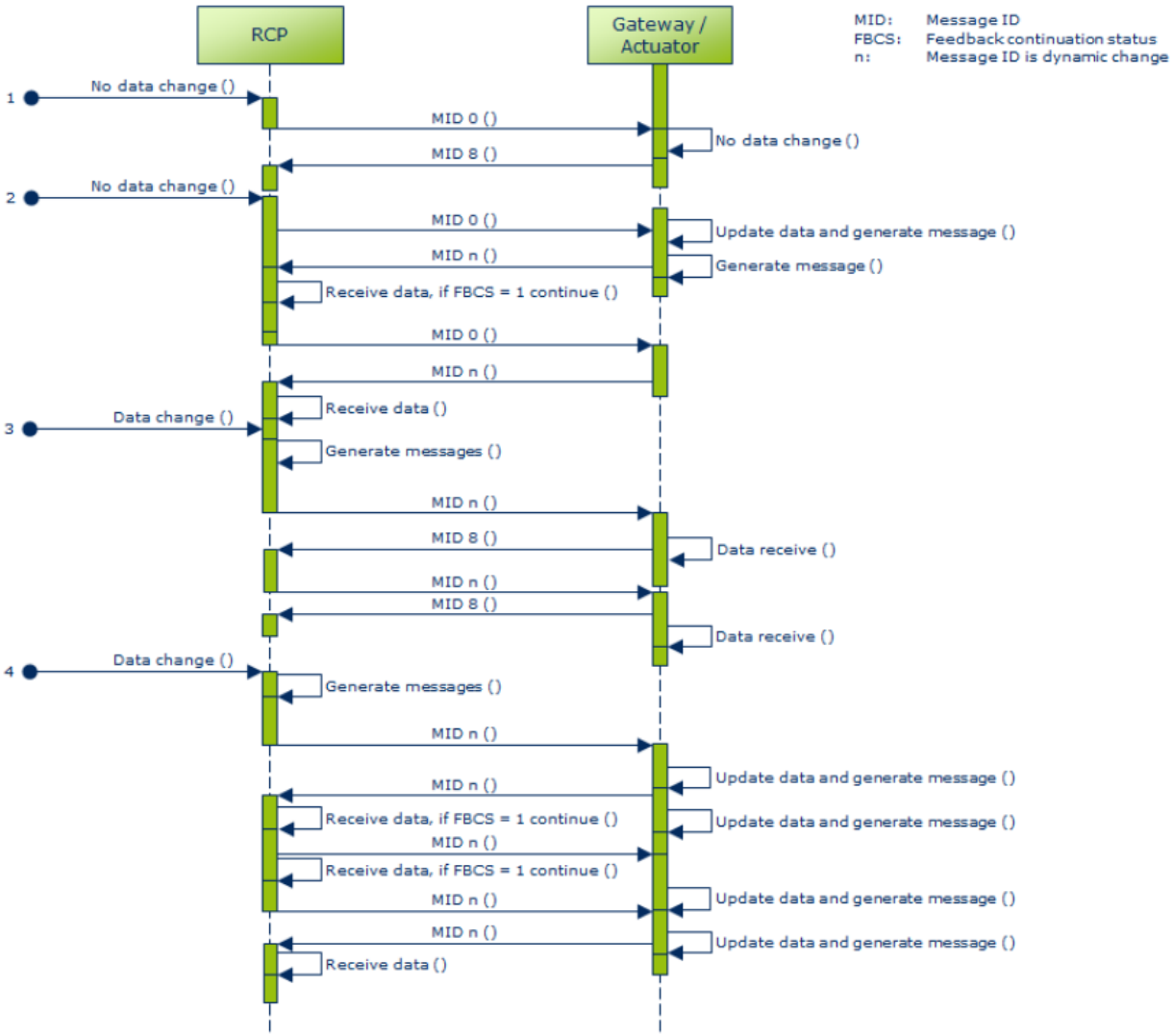
Security
Encryption required: no
Security level format: N/A

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

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



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

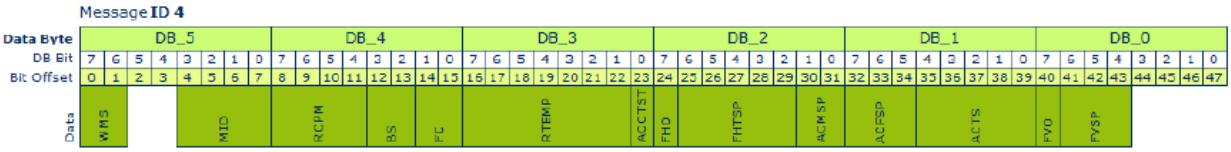
Message **ID 3**

Data Byte	DB_0							
DB Bit	7	6	5	4	3	2	1	0
Bit Offset	0	1	2	3	4	5	6	7
Data	TTP				MID			

Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	1	Telegram Type	TTP	Telegram Type	Enum: 0: Heartbeat 1: Gateway setting		
1	3	Not Used (= 0)					
4	4	Message ID	MID	Message ID-3	Enum: 3: ID-3		

Message ID 4

Direction: RCP -> Gateway/Actuator



Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	2	Work Mode Symbol	WMS	RCP display symbol as FloorHeating, AirCondition / FanCoil, FanVentilation	Enum: 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 Panel Mode	RCPM	RCP mode selector for control messages and data synchronization	Enum: 0: FloorHeating + AirCondition + FanVentilation 1: FloorHeating 2: AirCondition 3: FanVentilation 4: FloorHeating + AirCondition 5: FloorHeating + FanVentilation 6: AirCondition + FanVentilation 7...15: Reserved		
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 2...3: Reserved
16	7	Room Temperature	RTEMP		Enum: 0...50: °C 0...50 51...127: Reserved
23	1	Air Condition Contact State	ACCTST		Enum: 0: False 1: True
24	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
25	5	Floor Heating Temperature Setpoint	FHTSP		Enum: 0...30: °C 5...35 31: Reserved
30	2	Air Condition Mode Setpoint	ACMSP		Enum: 0: Off 1: Cooling 2: Heating 3: Auto
32	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) 5...7: Reserved
35	5	Air Condition Temperature Setting	ACTS		Enum: 0...30: °C 5...35 31: Reserved
40	1	Floor Ventilation Occupany / Power	FVO	If the room is occupied the Fan Ventilation is on, if it is unoccupied the Fan Ventilation is off	Enum: 0: Unoccupied/Off 1: Occupied/On
41	3	Fan Ventilation Setpoint	FVSP		Enum: 0: Auto 1: Off (Stage 0) 2: Low (Stage 1) 3: Medium (Stage 2) 4: High (Stage 3) 5...7: Reserved
44	4	Not Used (= 0)			

Message ID 5

Direction: RCP -> Gateway/Actuator

Message ID 5

Data Byte	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
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
Data	WMS				MID				RCPM				BS		FC		RTEMP							ACCTST

Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	2	Work Mode Symbol	WMS	RCP display symbol as FloorHeating, AirCondition / FanCoil, FanVentilation	Enum: 0: FloorHeating symbol 1: AirCondition symbol 2: FanVentilation symbol 3: Reserved		
2	2	Not Used (= 0)					
4	4	Message ID	MID	Message ID-5	Enum: 5: ID-5		
8	4	Room Controller Panel Mode	RCPM	RCP mode selector for control messages and data synchronization	Enum: 0: FloorHeating + AirCondition + FanVentilation 1: FloorHeating 2: AirCondition 3: FanVentilation 4: FloorHeating + AirCondition 5: FloorHeating + FanVentilation 6: AirCondition + FanVentilation 7...15: Reserved		
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 2...3: Reserved		
16	7	Room Temperature	RTEMP		Enum: 0...50: 0...50 °C 51...127: Reserved		
23	1	Air Condition Contact State	ACCTST		Enum: 0: False 1: True		

Message ID 6

Direction: RCP -> Gateway/Actuator

Message ID 6

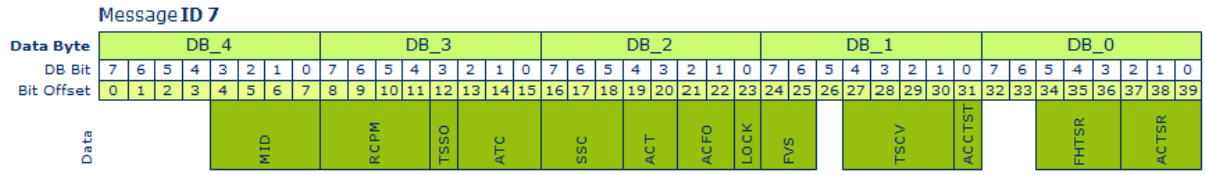
Data Byte	DB_3								DB_2								DB_1								DB_0							
DB Bit	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Bit Offset	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Data	WMS			MID					RCPM				FVO	FVSP			FHO	FHTSP					ACMSP		ACFSP						ACTS	

Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	2	Work Mode Symbol	WMS	RCP display symbol as FloorHeating, AirCondition / FanCoil, FanVentilation	Enum: 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: 0: FloorHeating + AirCondition + FanVentilation 1: FloorHeating 2: AirCondition 3: FanVentilation 4: FloorHeating + AirCondition 5: FloorHeating + FanVentilation 6: AirCondition + FanVentilation 7...15: Reserved		
12	1	Fan Ventilation Occupany / Power	FVO	If the room is occupied the Fan Ventilation is on, if it is unoccupied the Fan Ventilation is off	Enum: 0: Unoccupied/Off 1: Occupied/On		
13	3	Fan Ventilation Setpoint	FVSP		Enum: 0: Auto 1: Off (Stage 0) 2: Low (Stage 1) 3: Medium (Stage 2) 4: High (Stage 3) 5...7: Reserved		

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: 0...30: °C 5...35 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) 5...7: Reserved
27	5	Air Condition Temperature Setting	ACTS		Enum: 0...30: °C 5...35 31: Reserved

Message ID 7

Direction: RCP -> Gateway/Actuator



Offset	Size	Data	ShortCut	Description	Valid 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	RCPM	RCP mode selector for control messages and data synchronization	Enum: 0: FloorHeating + AirCondition + FanVentilation 1: FloorHeating 2: AirCondition 3: FanVentilation 4: FloorHeating + AirCondition 5: FloorHeating + FanVentilation 6: AirCondition + FanVentilation 7...15: Reserved		

12	1	Temperature Sensor Select Option	TSSO	Select between a remote sensor or a built-in sensor	Enum: 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 Period	SSC	RCP sample period	Enum: 0: 3 minutes 1: 1 second 2: 10 seconds 3: 30 seconds 4: 1 minute 5: 5 minutes 6: 10 minutes 7: 30 minutes
19	2	Air Condition Type Option	ACT	Choose between cooling, cooling and heating, or auto cooling and heating	Enum: 0: Off, Cooling, Heating, Fan 1: Off, Cooling, Fan 2: Off, Cooling, Heating, Fan, Auto 3: Reserved
21	2	Air Condition Fan Speed Option	ACFO	Choose the fan speed	Enum: 0: Auto Low Medium High 1: Auto Low High 2: Low High 3: High
23	1	Lock Mode	LOCK	When Lock mode = 1, RCP manual can modify only occupany/on/off function	Enum: 0: Unlock 1: Lock
24	2	Fan Ventilation Speed Option	FVS	Choose the fan speed type according to the fan speed option	Enum: 0: Auto Low Medium High 1: Auto Low High 2: Low High 3: High
26	1	Not Used (= 0)			
27	4	Room Temperature Correct Value	TSCV		Enum: 0...14: °C -7...7 15: Reserved
31	1	Air Condition Contact State	ACCTST		Enum: 0: False 1: True
32	2	Not Used (= 0)			

34	3	Floor Heating Temperature Range Setting	FHTSR		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
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

Message **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	7
Data	MCF	RIN	MT		MID			

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 requires more messages to be initialized	Enum: 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-8	Enum: 8: ID-8		

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	MT		MID				ES	FHO	FHTSP						ACMSP		ACFSP		FVSP				ACTS					FVO	WMS		RTOV							

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 requires more messages to be initialized	Enum: 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: 9: ID-9		
8	2	Exception Status	ES	Displays on the RCP if there is an error in the actuator	Enum: 0: NoError 1: Remote temperature sensor error 2...3: Reserved		
10	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		
11	5	Floor Heating Temperature Setpoint	FHTSP		Enum: 0...30: 5...35 °C 31: Reserved		
16	2	Air Condition Mode Setpoint	ACMSP		Enum: 0: Off 1: Cooling 2: Heating 3: Auto		
18	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) 5...7: Reserved
21	3	Fan Ventilation Setpoint	FVSP		Enum: 0: Auto 1: Off (Stage 0) 2: Low (Stage 1) 3: Medium (Stage 2) 4: High (Stage 3) 5...7: Reserved
24	5	Air Condition Temperature Setting	ACTS		Enum: 0...30: °C 5...35 31: Reserved
29	1	Fan Ventilation Occupancy / Power	FVO	If the room is occupied the Fan Ventilation is on, if it is unoccupied the Fan Ventilation is off	Enum: 0: Unoccupied/Off 1: Occupied/On
30	2	Work Mode Symbol	WMS	RCP display symbol as FloorHeating, AirCondition / FanCoil, FanVentilation, sensor	Enum: 0: FloorHeating symbol 1: Air Condition symbol 2: FanVentilation symbol 3: Reserved
32	7	Remote Temperature Original Value	RTOV	If remote temperature is enable, the external sensor value select display and control, the built-in sensor is disabled	Enum: 0...50: °C 0...50 51...127: Reserved
39	1	Not Used (= 0)			

Message ID 10

Direction: Gateway/Actuator -> RCP

Message ID 10

Data Byte	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
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
Data	MCF	RIN	MT		MID				ES								RTOV							

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 requires more messages to be initialized	Enum: 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-10	Enum: 10: ID-10		
8	2	Exception Status	ES	Displays on the RCP if there is an error in the actuator	Enum: 0: NoError 1: Remote temperature sensor error 2...3: Reserved		
10	6	Not Used (= 0)					
16	7	Remote Temperature Original Value	RTOV	If remote temperature is enable, the external sensor value select display and control, the built-in sensor is disabled	Enum: 0...50: 0...50 51...127: Reserved		°C
23	1	Not Used (= 0)					

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	MT		MID				FVO	FVSP					WMS		FHO	FHTSP					ACMSP		ACFSP						ACTS	

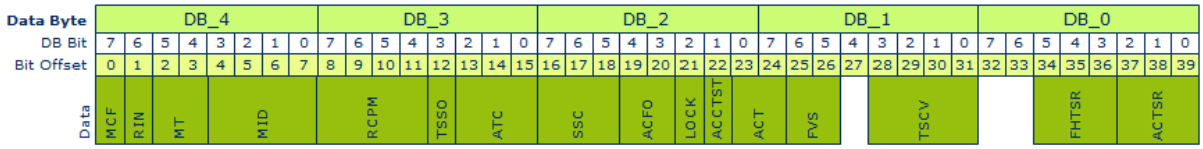
Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	1	Message Continuation Flag	MCF	Indicates if another telegram has to be expected or if the message is complete	Enum: 0: Complete 1: Incomplete		
1	1	Run Init Sequence	RIN	Indicates if the Gateway / actuator requires more messages to be initialized	Enum: 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-11	Enum: 11: ID-11		
8	1	Fan Ventilation Occupany / Power	FVO	If the room is occupied the Fan Ventilation is on, if it is unoccupied the Fan Ventilation is off	Enum: 0: Unoccupied/Off 1: Occupied/On		
9	3	Fan Ventilation Setpoint	FVSP		Enum: 0: Auto 1: Off (Stage 0) 2: Low (Stage 1) 3: Medium (Stage 2) 4: High (Stage 3) 5...7: Reserved		
12	2	Not Used (= 0)					
14	2	Work Mode Symbol	WMS	RCP display symbol as FloorHeating, AirCondition / FanCoil, FanVentilation	Enum: 0: FloorHeating symbol 1: Air Condition symbol 2: FanVentilation symbol 3: Reserved		

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: 0...30: 5...35 °C 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) 5...7: Reserved
27	5	Air Condition Temperature Setting	ACTS		Enum: 0...30: 5...35 °C 31: Reserved

Message ID 12

Direction: Gateway/Actuator -> RCP

Message ID 12



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 requires more messages to be initialized	Enum: 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-12	Enum: 12: ID-12		
8	4	Room Controller Panel Mode	RCPM	RCP mode selector for control messages and data synchronization	Enum: 0: FloorHeating + AirCondition + FanVentilation 1: FloorHeating 2: AirCondition 3: FanVentilation 4: FloorHeating + AirCondition 5: FloorHeating + FanVentilation 6: AirCondition + FanVentilation 7...15: Reserved		
12	1	Temperature Sensor Select Option	TSSO	Select between a remote sensor or a built-in sensor	Enum: 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 Period	SSC	RCP sample period	Enum: 0: 3 minutes 1: 1 second 2: 10 seconds 3: 30 seconds 4: 1 minute 5: 5 minutes 6: 10 minutes 7: 30 minutes
19	2	Air Condition Fan Speed Option	ACFO	Choose the fan speed	Enum: 0: Auto Low Medium High 1: Auto Low High 2: Low High 3: High
21	1	Lock Mode	LOCK	When Lock mode = 1, RCP manual can modify ony occupany/on/off function	Enum: 0: Unlock 1: Lock
22	1	Air Condition Contact State	ACCTST		Enum: 0: False 1: True
23	2	Air Condition Type Option	ACT	Choose between cooling, cooling and heating, or auto cooling and heating	Enum: 0: Off, Cooling, Heating, Fan 1: Off, Cooling, Fan 2: Off, Cooling, Heating, Fan, Auto Cooling and Heating 3: Reserved
25	2	Fan Ventilation Speed Option	FVS	Choose the fan speed type according to the fan speed option	Enum: 0: Auto Low Medium High 1: Auto Low High 2: Low High 3: High
27	1	Not Used (= 0)			
28	4	Room Temperature Correct Value	TSCV		Enum: 0...14: °C -7...7 15: Reserved
32	2	Not Used (= 0)			
34	3	Floor Heating Temperature Range Setting	FHTSR		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
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