

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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A5-20: HVAC Components

RORG	A5	4BS Telegram
FUNC	20	HVAC Components
TYPE	01	Battery Powered Actuator (BI-DIR)

Submitter: Kieback + Peter GmbH

DIRECTION-1 = Transmit mode: Message from the actuator to the controller
 DIRECTION-2 = Receive mode: Commands from the controller to the actuator; max. response time 1 sec.

DIRECTION-1

Offset	Size	Bitrange	Data	ShortCut	Description	Valid Range	Scale	Unit
0	8	DB3.7...DB3.0	Current Value	CV	Current value	0...100	0...100	%
8	1	DB2.7	Service On	SO	Service On	Enum: 1: on		
9	1	DB2.6	Energy input enabled	ENIE	Energy input enabled	Enum: 1: true		
10	1	DB2.5	Energy Storage	ES	Energy storage sufficiently charged	Enum: 1: true		
11	1	DB2.4	Battery capacity	BCAP	Battery capacity; change battery next days	Enum: 0: true		
12	1	DB2.3	Contact, cover open	CCO	Contact, cover open	Enum: 1: true		
13	1	DB2.2	Failure temperature sensor, out off range	FTS	Failure Temperature sensor, out off range	Enum: 1: true		
14	1	DB2.1	Detection, window open	DWO	Detection, window open	Enum: 1: true		
15	1	DB2.0	Actuator obstructed	ACO	Actuator obstructed	Enum: 1: true		
16	8	DB1.7...DB1.0	Temperature	TMP	Temperature (linear)	0...255	0...+40	°C
24	4	DB0.7...DB0.4	Not Used (= 0)					
28	1	DB0.3	LRN Bit	LRNB	LRN Bit	Enum: 0: Teach-in telegram 1: Data telegram		
29	3	DB0.2...DB0.0	Not Used (= 0)					

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DIRECTION-2

Offset	Size	Bitrange	Data	ShortCut	Description	Valid Range	Scale	Unit
0	8	DB3.7...DB3.0	Valve position or Temperature Setpoint	SP	Valve position or Temperature set point (linear); selection with DB1.2 Valve position 0...100% in combination with compatible classic controllers the actuator used DB_3; Temperature set point: The actuator can be used as self-sufficient room controller (pi controller) without integration in automation systems.	0...100 or 255	0...100 or +40	% or °C
					Wherever the user wants room conditions to be individually controlled, the actuator can work in combination with a wireless room device (RCU).			
8	8	DB2.7...DB2.0	Temperature from RCU	TMP	Temperature actual from RCU = 0b0 (Room controller-unit), see DB1.0 Maintenance mode ('service on'): DB_2.BIT_5: energy memory sufficiently charged =1 DB_2.BIT_4: battery capacity changing battery in the next days, need changing batteries = 0 Status feedback signal (service on, DB_2.BIT_7	255...0	0...+40	°C
16	1	DB1.7	Run init sequence	RIN	The limit switching measures the travel and signals when an end position has been reached. This end position (valve zero point) in the actuator is stored.	Enum: 1: true		
17	1	DB1.6	Lift set	LFS	Initialization, adjustment to the valve stroke. The Initialization is switched after receiving the command. The valve is completely opened and closed during initialization.	Enum: 1: true		
18	1	DB1.5	Valve open / maintenance	VO	After receiving an operation command, the actuator moves the valve in direction open or close. when reaching the end position, an automatic switch-off procedure is started. In service mode the valve can be set to open or closed always.	Enum: 1: true		
19	1	DB1.4	Valve closed	VC	valve closed	Enum: 1: true		
20	1	DB1.3	Summer bit, Reduction of energy consumption	SB	The radio communication between the actuator and the controller is restricted, sleep mode is extended. This functionality can be used for battery powered actuators.	Enum: 1: true		

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21	1	DB1.2	Set Point Selection	SPS	Set Point Selection for DB3	Enum:
						0: Valve position (0-100%). Unit respond to controller.
						1: Temperature set point 0...40°C. Unit respond to room sensor and use internal PI loop.
22	1	DB1.1	Set point inverse	SPN	Valve set point can be sent to the actuator normal or inverted. The selection is done by DB_1.Bit1. The implementation is done and is controlled in the actuator with DB_3. This function is used in dependence on the type of valve.	Enum: 1: true
23	1	DB1.0	Select function	RCU	RCU or 'Service on': After transmitting the command to the actuator, it can be send from the controller or a service device, the actuator sends a status feedback signal (service on, DB_2.BIT_7).	Enum: 0: RCU 1: service on
24	4	DB0.7...DB0.4	Not Used (= 0)			
28	1	DB0.3	LRN Bit	LRNB	LRN Bit	Enum:
						0: Teach-in telegram
						1: Data telegram
29	3	DB0.2...DB0.0	Not Used (= 0)			