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

D2-0A: Multichannel Temperature Sensor

TYPE 00, 01 *Submitter: Pressac Communications Ltd*

Description:
A family of EEP's that needs to transmit multichannel input temperatures simultaneously to minimise the amount of telegrams generated to avoid collisions in multi-use areas and for the efficient use of battery life. The profile type allows a different temperature range and a number of channels to be selected depending on client application.

Data exchange
Direction: unidirectional
Addressing: broadcast
Communication trigger: time-triggered
Communication interval: variable
Trigger event: none
Tx delay: N/A
Rx timeout: N/A

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

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

EEP Family Table

Each TYPE has to support all telegrams and parameters marked in its column.

Supported function ... of TYPE	00	01
Number of channels	3	3
Sensor type (unit)	°C	°C
Value range lower limit	0	-20
Value range upper limit	80	100
Support sensor fault	X	X
Support sensor disconnected	X	X

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

RORG	D2	**VLD Telegram**
FUNC	0A	Multichannel Temperature Sensor
TYPE	01	Type 0x01

Submitter: Pressac Communications Ltd

Notes:

Battery life enumeration is determined by low voltage threshold on processor calculated to give early warning of battery replacement.

TYPE **01**

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	BL								CH1								CH2								CH3							

Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	1	Battery Life	BL		Enum: 0: OK 1: LOW		
1	7	Not Used (= 0)					
8	8	Channel 1	CH1	Temperature	Enum: 0...240: -20...+100 241...253: Reserved 254: Fault 255: Disconnected		°C
16	8	Channel 2	CH2	Temperature	Enum: 0...240: -20...+100 241...253: Reserved 254: Fault 255: Disconnected		°C
24	8	Channel 3	CH3	Temperature	Enum: 0...240: -20...+100 241...253: Reserved 254: Fault 255: Disconnected		°C