

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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System Specification



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A5-13: Environmental Applications

RORG	A5	4BS Telegram
FUNC	13	Environmental Applications
TYPE	08	Rain Sensor

Submitter: Hideki Electronics Limited

Description

This profile provides rain sensor information.

That includes the current rainfall count value and the rainfall count correction.

Using these values, the receiver of the information can calculate the currently measured amount of rainfall.

$$\text{Rainfall} = (\text{Rainfall Count} \times 0.6875 \text{ mm}) \times (1 + (\text{Rainfall Adjust Sign}) \text{ Rainfall Adjust})$$

Example:

Rainfall Count = 10

Rainfall Adjust = 26

Rainfall Adjust Sign = 1

$$\text{Rainfall} = 10 \times 0.6875 \text{ mm} \times (1 + 2.6/100) = 7.05375 \text{ mm}$$

Data exchange

Direction: unidirectional

Addressing: broadcast

Communication trigger: time-triggered

Communication interval: 183 seconds

Trigger event: timer

Tx delay: N/A

Rx timeout: N/A

Teach-in

Teach-in method: 4BS teach-in 1

Security

Encryption supported: no

Security level format: N/A

System Specification

Offset	Size	Bitrange	Data	ShortCut	Description	Valid Range	Scale	Unit
0	1	DB3.7	Not Used (= 0)					
1	1	DB3.6	Rainfall Adjust Sign	RAS	Provides the sign of the rainfall adjust value	Enum: 0: Negative 1: Positive		
2	6	DB3.5...DB3.0	Rainfall Adjust	RFA	Provides the rainfall count correction value	Enum: 0...39: 0...3.9 % Reserved 40...63:		
8	16	DB2.7...DB1.0	Rainfall Count	RFC	Number of counted rain drops	0...65535	0...65535	
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	2	DB0.2...DB0.1	Not Used (= 0)					
31	1	DB0.0	Battery Status	BS	Indicates if the battery is low	Enum: 0: Battery okay 1: Battery low		