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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D2-32: A.C. Current Clamp

Description
A family of EEP's based on a central unit where up to three a.c. Current Clamps can be connected. Each one capable of energy harvesting sufficiently to enable readings of current values to be taken in amps and transmitted every 30 seconds.

Data exchange
Direction: unidirectional
Addressing: broadcast
Communication trigger: time-triggered
Communication interval: 30 seconds
Trigger event: Threshold Voltage for Power Fail transmission bit
Tx delay: -
Rx timeout: -

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

Security
Encryption supported: no
Security level format: -

EEP Family Table:

Supported function	Type 00	Type 01	Type 02
Channel 1	X	X	X
Channel 2	-	X	X
Channel 3	-	-	X

Each TYPE has to support every parameter that is marked in its column!

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

RORG	D2	VLD Telegram
FUNC	32	A.C. Current Clamp
TYPE	01	Type 0x01

Submitter: Pressac Communications Ltd

Type 01

	DB_3								DB_2								DB_1								DB_0							
DB_3.BIT_7 ← 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 → 31	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
	PF	DIV							CH1								CH2															

Notes
1) If Power Fail bit is set, all channel readings will be set to zero when this final telegram is sent.
2) Scale/divisor is set to 0 or 1 for all channels only, not individually.

Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	1	Power Fail	PF	See Note 1	Enum: 0: False 1: True		
1	1	Divisor	DIV	Divisor for all channels	Enum: 0: x/1 1: x/10		
2	6	Not Used (= 0)					
8	12	Channel 1	CH1	Current value	0...0xFFF	0...4095 (409,5)	A
20	12	Channel 2	CH2	Current value	0...0xFFF	0...4095 (409,5)	A