

EnOcean Equipment Profiles

REVISION HISTORY

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System Specification



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A5-12: Automated Meter Reading (AMR)

RORG	A5	4BS Telegram
FUNC	12	Automated Meter Reading (AMR)
TYPE	10	Current meter 16 channels

Submitter: Ewattch

Description

This profile is used for up to 16 channels current meters.

Data exchange

Direction: unidirectional

Addressing: broadcast

Communication trigger: event- & time-triggered

Communication interval: can be defined by user

Trigger event: 10 or 20 % delta for observed value

Tx delay: -

Rx timeout: -

Teach-in

Teach-in method: 4BS teach-in 2

Security

Encryption supported: no

Security level format: -

Recommendation

Channels not used should not be transmitted.

Appendix

Our new product is a 12 channels current meter. It is able to measure, using a maximum of 12 current transformers, the current (mA) or cumulative current (mAh) of all of his channels. It is however not sending data for not configured channels (e.g. channels 12 to 15). The meter is sending values every 5 or 10 seconds, and in order to improve accuracy, a current fluctuation of more than 10 or 20 % will trigger a new transmission of the corresponding channel.



Offset	Size	Bitrange	Data	ShortCut	Description	Valid Range	Scale	Unit
0	24	DB3.7...DB1.0	Meter reading	MR	Current value in mA or cumulative value in A.h	0...16777215	according to DIV	according to DT
24	4	DB0.7...DB0.4	Measurement channel	CH	Channel no.	0...15	0...15	
28	1	DB0.3	LRN Bit	LRNB	LRN Bit	Enum: 0: Teach-in telegram 1: Data telegram		
29	1	DB0.2	Data type (unit)	DT	Current value or cumulative value	Enum: 0: Cumulative value A.h ... 1: Current value mA ...		
30	2	DB0.1...DB0.0	Divisor (scale)	DIV	Divisor for value	Enum: 0: x/1 0...16777215 1: x/10 0...1677721.5 2: x/100 0...167772.15 3: x/1000 0...16777.215		