

EnOcean Equipment Profiles

REVISION HISTORY

Ver.	Editor	Change	Date
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System Specification



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A5-09: Gas Sensor

RORG	A5	4BS Telegram
FUNC	09	Gas Sensor
TYPE	0A	Hydrogen Gas Sensor

Submitter: SiMICS

Description

Hydrogen Gas Sensor with 16 bit resolution and 0-2000 ppm

Data exchange

Direction: unidirectional

Addressing: broadcast

Communication trigger: event- & time-triggered

Communication interval: -

Trigger event: change in gas concentration and temp

Tx delay: -

Rx timeout: -

Teach-in

Teach-in method: 4BS teach-in 2

Security

Encryption supported: yes

Security level format: PSK, RLC, AES128

Offset	Size	Bitrange	Data	ShortCut	Description	Valid Range	Scale	Unit
0	16	DB3.7...DB2.0	Concentration	Conc	Gas concentration	0...65535	0...65535	ppm
16	8	DB1.7...DB1.0	Temperature	TEMP	Temperature (linear)	0...255	-20...+60	°C
24	4	DB0.7...DB0.4	Supply voltage	SV	Supply voltage / super cap.	0...15	2.0...5.0	V
28	1	DB0.3	LRN Bit	LRNB	LRN Bit	Enum: 0: Teach-in telegram 1: Data telegram		
29	1	DB0.2	Not Used (= 0)					
30	1	DB0.1	Temp sensor availability	TSA	Temp sensor availability at TMP	Enum: 0: Temp sensor is not supported 1: Temp sensor is supported		
31	1	DB0.0	Supply voltage availability	SVA	Supply voltage availability at SV	Enum: 0: Supply voltage is not supported 1: Supply voltage is supported		