

## 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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## A5-09: Gas Sensor

<b>RORG</b>	A5	4BS Telegram
<b>FUNC</b>	09	Gas Sensor
<b>TYPE</b>	0C	VOC Sensor

Submitter: NanoSense

### Description

Since this EEP has been released, Total VOC has been regulated by ISO standard. ISO 16000-29 is using weight per cubic metre instead of concentration. This update is for using free bits of this EEP to choose between ppb and µg/m3. Therefore the updated EEP will be compatible with previous version and will provide compliance with ISO standard. Some new VOC have been added in the list especially Naphthalene that will be soon regulated in certain European countries and 4-Phenylcyclohexene because it is part of the LEED (National rating system for sustainable buildings for North America).

### Data exchange

Direction: unidirectional

Addressing: broadcast

Communication trigger: event- & time-triggered

Communication interval: -

Trigger event: value change or time

Tx delay: -

Rx timeout: -

### Teach-in

Teach-in method: 4BS teach-in 2

### Security

Encryption supported: no

Security level format: -

\*: For instance, Monthly means the last or the forecast cost of consumption of the last or the next month.

# System Specification

Offset	Size	Bitrange	Data	ShortCut	Description	Valid Range	Scale	Unit			
0	16	DB3.7...DB2.0	VOC	Conc	VOC concentration	0...65535	0...65535	according to Unit			
16	8	DB1.7...DB1.0	VOC ID*	VOC ID	VOC identification	<div>Enum:</div> <div><div>0: VOCT (total)</div><div>1: Formaldehyde</div><div>2: Benzene</div><div>3: Styrene</div><div>4: Toluene</div><div>5: Tetrachloroethylene</div><div>6: Xylene</div><div>7: n-Hexane</div><div>8: n-Octane</div><div>9: Cyclopentane</div><div>10: Methanol</div><div>11: Ethanol</div><div>12: 1-Pentanol</div><div>13: Acetone</div><div>14: ethylene Oxide</div><div>15: Acetaldehyde ue</div><div>16: Acetic Acid</div><div>17: Propionice Acid</div><div>18: Valeric Acid</div><div>19: Butyric Acid</div><div>20: Ammoniac</div><div>22: Hydrogen Sulfide</div><div>23: Dimethylsulfide</div><div>24: 2-Butanol (butyl Alcohol)</div><div>25: 2-Methylpropanol</div><div>26: Diethyl ether</div><div>27: Naphthalene</div><div>28: 4-Phenylcyclohexene</div><div>29: Limonene</div><div>30: Trichloroethylene</div><div>31: Isovaleric acid</div><div>32: Indole</div><div>33: Cadaverine</div><div>34: Putrescine</div><div>35: Caproic acid</div><div>255: Ozone</div></div>					
24	4	DB0.7...DB0.4	Not Used (= 0)								
28	1	DB0.3	LRN Bit	LRNB	LRN Bit				<div>Enum:</div> <div><div>0: Teach-in telegram</div><div>1: Data telegram</div></div>		
29	1	DB0.2	Unit	Unit	Unit of VOC concentration				<div>Enum:</div> <div><div>0: ppb</div><div>1: µg/m3</div></div>		
30	2	DB0.1...DB0.0	Scale Multiplier	SCM	Scale multiplier				<div>Enum:</div> <div><div>0: 0.01</div><div>1: 0.1</div><div>2: 1</div><div>3: 10</div></div>		