

## 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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## System Specification

### D2-04: CO2, Humidity, Temperature, Day/Night and Autonomy

CO2 sensor with 8 bits resolution (0 – 2000ppm or 0-5000ppm range) 8 bits temperature and relative humidity with Day / Night and battery autonomy.

Day / Night is based on illumination not on clock

#### Data exchange

Direction: unidirectional

Addressing: broadcast

Communication trigger: time-triggered

Communication interval: According to remaining autonomy and day or night

Trigger event: heartbeat, ...

Teach-in method: Universal teach-in, Smart Ack

Encryption required: no

Security level format: 0

#### EEP Family Table

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

TYPE	0x00	0x01	0x02	0x03	0x04	0x05	0x06	0x07	0x08	0x09	0x10	0x1A	0x1B	0x1C	0x1D	0x1E
CO2 Sensor 0-2000 ppm range	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-
CO2 Sensor 0-5000 ppm range	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X
Humidity Sensor	X	X	-	-	-	-	-	-	X	X	-	-	-	-	-	-
Temperature Sensor	X	-	X	X	X	X	-	-	X	-	X	X	X	X	-	-
Day/Night Sensor	X	X	X	-	-	X	X	X	X	X	X	-	-	X	X	X
Battery Autonomy	X	X	X	X	-	-	-	X	X	X	X	X	-	-	-	X

<b>RORG</b>	D2	<b>VLD Telegram</b>
<b>FUNC</b>	04	CO2, Humidity, Temperature, Day/Night and Autonomy
<b>TYPE</b>	1D	Type 0x1D (description: see table)

Submitter: NanoSense

The manufacturer will indicate emission rates versus battery autonomy and day night status.

Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	8	CO2	CO2	Concentration (linear), 1 LSB = 7.84 ppm Or Concentration (linear), 1 LSB = 19.6 ppm	0...255	0...2000 (or 5000)	ppm
8	8	Humidity	HUM	Rel. Humidity (linear), 1 LSB = 0.5 %	0...200	0...100	%
16	8	Temperature	TMP	Temperature (linear), 1 LSB = 0.2 °C	0...255	0...+51	°C
24	1	Day/Night	DN	...	Enum: 0: Day 1: Night		
25	3	Battery autonomy	BA	Battery autonomy	Enum: 0: 100 - 87.5 % 1: 87.5 - 75 % 2: 75 - 62.5 % 3: 62.5 - 50 % 4: 50 - 37.5 % 5: 37.5 - 25 % 6: 25 - 12.5 % 7: 12.5 - 0 %		
28	4	Not Used (= 0)					