

## **EnOcean Equipment Profiles**

#### **REVISION HISTORY**

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## **System Specification**

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## D2-14: Multi Function Sensors

TYPE 00 ... 24 Submitter: Perfactory

TYPE 30 ... 31 Submitter: Nexelec

#### Description:

#### Indoor Smarthome Multisensor

These EEPs describe a family of smarthome multi-functional sensors with optional Touch Button devices. Each device/member of the family is equipped with a different set of sensors to measure ambient environmental parameters, e.g. temperature, humidity, light level etc.

Some family-members are equipped with buttons in addition to the sensors. The response to pressing a button can be defined freely.

#### Sensor fault mode status (COA / SMA):

A smoke sensor failure prevents operation of a smoke / CO alarm signal. The smoke / CO sensor is supervised and a failure activates this flag.

#### Smoke Alarm Condition analysis:

The smoke alarm might be activated by improper environmental conditions like dust, humidity, etc. The product will activate flags if some of these conditions are observed at the moment of alarm activation.

- Maintenance: the flag is set if there is a lack of maintenance
- Temperature: the flag is set if the temperature may cause the alarm
- Humidity: the flag is set if the relative humidity may cause the alarm

!!! An activated flag doesn't mean that there is no smoke. It is dangerous to suspect a false alarm as the smoke preceding the onset of the flames are toxic and may cause you to lose consciousness: despite the absence of flames, a fire may blaze up in a few minutes. Nexelec recommends to analyse the environmental condition of a smoke alarm after the disappearance of the smoke alarm signal.

#### CO Alarm Condition analysis:

The CO alarm might be activated by improper environmental conditions like dust, humidity, etc. The product will activate flags if some of these conditions are observed at the moment of alarm activation.

- Maintenance: the flag is set if there is a lack of maintenance
- Temperature: the flag is set if the temperature may cause the alarm
- Humidity: the flag is set if the relative humidity may cause the alarm

!!! An activated flag doesn't mean that there is no CO. It is dangerous to suspect a false alarm. Nexelec recommends to analyse the environmental condition of a CO alarm after the disappearance of the CO alarm signal.

#### EEP Properties defined by the submitter:

Data exchange

Direction: unidirectional Addressing: broadcast

Communication trigger: event- & time-triggered

Communication interval: According to configuration ((non-)autonomous operation, battery status, etc.)

Trigger event: change of value (configuration-dependent) over threshold

Tx delay: -Rx timeout: -

Teach-in

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

Security

Encryption supported: no Security level format: -

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## Parameters applied by EEP family members:

Each member of the family transports at least one or more parameters it its messages as defined later. The parameters are defined in the following table; these are the "building blocks" of the telegrams.

Name	ShortCut	Size	Description	Valid Range	Scale	Unit						
Massage ID	MSGID	8	Massage ID	0 255								
Message ID	MSGID	0	Message ID	0 255								
Temperature	TMP8	8	Temperature	0 250	Linear, range sensor (TYPE) dependent	°C						
remperature	THEO		Status of Temperature Sensor	Enum: 251 254: Reserved 255: Error								
				255. 21101								
Temperature	TMP9	9	Temperature	0 500	Linear, range sensor (TYPE) dependent	°c						
remperature	Thiry	9		Enum:								
			Status of Temperature Sensor	501 510: R	eserved							
			remperature sensor	511: Error								
			rel. Humidity (linear)	0 200	0 100	%						
Humidity	HUM	8	Chaban of Hamildian	Enum:								
			Status of Humidity Sensor	201 254: Reserved								
			Scrisor	255: Error								
			Illumination (linear)	0 100,000   0 100,000   lx								
Illumination	ILL	17	Status of	Enum:								
		17	Illumination Sensor	100,001 131,070: Reserved								
				131,071: Error								
				1-								
				Enum:								
Francis Characa	FC	_	Energy Storage	0: High								
Energy Storage	ES	2	Status	1: Medium 2: Low								
				3: Critical								
				J. Citical								
			VOC in CO2									
			equivalents (linear)	0 250	0 2,000	ppm/e						
voc	voc	8	TVOC (linear)	0 250	0 1,150	ppb						
VOC	1000	0		Enum:								
			Status of VOC Sensor	251 254: R	eserved							
			Jelisoi	255: Error								
CO2	CO3	9	CO2 (linear)	0 250	Sensor dependent, e.g. 0 2,000	ppm						
CO2	CO2	8		Enum:								
			Status of CO2 Sensor	251 254: R	eserved							
				255: Error								

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со	со	8	CO (linear)	0 200 Sensor dependent, e.g. 0 1,000 ppm									
CO	100	8		Enum:									
			Status of CO Sensor	201 254: Reserved									
				255: Error									
			Barometer (linear)	0 500 600 1,000 hPa									
				Enum:									
Barometer	BAR	9	Status of Barometer Sensor	501 510: Reserved									
			Daronieter Sensor	511: Error									
			•										
				Enum:									
	nce PR 2 Presence Detector			0: Present									
Presence			Presence Detector	1: Not present									
				2: Not detectable									
				3: Presence Detector error									
	_												
				Enum:									
				0: Button A released									
Button A	BA	2	Button A	1: Button A pressed									
				2: Reserved									
				3: Button A error (state not detectable)									
				Court (State for december)									
				Enum:									
				0: Button B released									
Button B	BB	2	Button B	1: Button B pressed									
Dutton D		_		2: Reserved									
				3: Button B error (state not detectable)									
				Enum:									
		1	Smoke Alarm status	0: Smoke Alarm non-activated									
		-	Sillotto / tartiii Status	1: Smoke Alarm activated									
				Enum:									
		1	Sensor fault mode	0: Sensor Fault mode non-activated									
		-	status	1: Sensor Fault mode activated									
			Smoke Alarm	Enum:									
		1	Condition analysis:	0: Maintenance OK									
		-	Maintenance	1: Maintenance not done									
Smoke Alarm	SMA		Smoke Alarm	Enum:									
		1	Condition analysis:	0: Humidity range OK									
			Humidity	1: Humidity range NOK									
			Smoke Alarm	Enum:									
		1	Condition analysis:	0: Temperature range OK									
			Temperature	1: Temperature range NOK									
				0 250 0 250 Week									
			Time since last	Enum:									
		8	maintenance	251 254: Reserved									
				255: Error									



				Enum:								
		1	CO Alarm status	0: CO Alarm no	n-activated							
				1: CO Alarm ac	tivated							
				Enum:								
		1	Sensor fault mode	0: Sensor Fault	mode non-activ	vated						
			status	1: Sensor Fault mode activated								
			CO Al-									
		1	CO Alarm Condition analysis:	Enum:  O: Maintenance OK								
		1	Maintenance	0: Maintenance OK 1: Maintenance not done								
CO Alesen	604				not done							
CO Alarm	COA	١.	CO Alarm	Enum:	01/							
		1	Condition analysis: Humidity	0: Humidity rar								
			nullialty	1: Humidity rar	nge NOK							
			CO Alarm	Enum:								
		1	Condition analysis:	0: Temperature								
			Temperature	1: Temperature	e range NOK							
				0 250	0 250	Week						
		_	Time since last	Enum:								
		8	maintenance	251 254: Res	served							
				251 254: Reserved 255: Error								
				2001 2.101								
					Product	Month						
Remaining			Countdown time		dependent, e.g. 0 250	Month						
Product Life	RPLT	8	until product end									
Time			of life	Enum:								
				251 254: Reserved								
					sei veu							
				255: Error	serveu							
					serveu							
					served							
			Comfort Index	255: Error	Scived							
Hygrothermal	нсі	2	based on	255: Error Enum:	Scived							
Hygrothermal Comfort Index	нсі	2	based on temperature and	255: Error Enum: 0: Good	Served							
	нсі	2	based on	255: Error  Enum: 0: Good 1: Medium 2: Bad	Scived							
	нсі	2	based on temperature and	255: Error  Enum: 0: Good 1: Medium	Scrived							
	нсі	2	based on temperature and	255: Error  Enum: 0: Good 1: Medium 2: Bad 3: Error	Scrived							
	HCI	2	based on temperature and	Enum: 0: Good 1: Medium 2: Bad 3: Error								
	HCI	2	based on temperature and	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r	ange							
	нсі	2	based on temperature and humidity	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range	range e							
Comfort Index			based on temperature and humidity	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range 2: High humidit	ange e ey range							
Comfort Index  T/Hum. Indoor	HCI	2	based on temperature and humidity  Indoor Air quality analysis based on	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range 2: High humidit	range e	lity range						
Comfort Index			based on temperature and humidity	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range 2: High humidit 3: High temper: 4: Temperature	ange e ey range							
Comfort Index  T/Hum. Indoor			Indoor Air quality analysis based on temperature and humidity	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range 2: High humidit 3: High temper.	range e cy range ature and humic							
Comfort Index  T/Hum. Indoor			Indoor Air quality analysis based on temperature and humidity	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range 2: High humidit 3: High temper: 4: Temperature	ange e cy range ature and humic e or Humidity ou							
Comfort Index  T/Hum. Indoor			Indoor Air quality analysis based on temperature and humidity	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range 2: High humidit 3: High temperature analysis range	ange e cy range ature and humic e or Humidity ou							
Comfort Index  T/Hum. Indoor			Indoor Air quality analysis based on temperature and humidity	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range 2: High humidit 3: High temper: 4: Temperature analysis range 5 6: Reserve	ange e cy range ature and humic e or Humidity ou							
Comfort Index  T/Hum. Indoor			Indoor Air quality analysis based on temperature and humidity	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range 2: High humidit 3: High temperature analysis range 5 6: Reserver 7: Error	ange e cy range ature and humic e or Humidity ou							
Comfort Index  T/Hum. Indoor			Indoor Air quality analysis based on temperature and humidity	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range 2: High humidit 3: High temper: 4: Temperature analysis range 5 6: Reserver 7: Error	ange e cy range ature and humic e or Humidity ou							
T/Hum. Indoor Air Analysis	IAQTH	3	Indoor Air quality analysis based on temperature and humidity  Indoor Air quality analysis based on temperature and humidity	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range 2: High humidit 3: High temperature analysis range 5 6: Reserver 7: Error  Enum: 0: Good	ange e cy range ature and humic e or Humidity ou							
T/Hum. Indoor Air Analysis			Indoor Air quality analysis based on temperature and humidity  Indoor Air quality analysis based on temperature and humidity  Indoor Air quality analysis based on	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range 2: High humidit 3: High temperature analysis range 5 6: Reserver 7: Error  Enum: 0: Good 1: Medium	ange e cy range ature and humic e or Humidity ou							
T/Hum. Indoor Air Analysis	IAQTH	3	Indoor Air quality analysis based on temperature and humidity  Indoor Air quality analysis based on temperature and humidity	Enum: 0: Good 1: Medium 2: Bad 3: Error  Enum: 0: Optimal air r 1: Dry Air range 2: High humidit 3: High temperature analysis range 5 6: Reserver 7: Error  Enum: 0: Good	ange e cy range ature and humic e or Humidity ou							

# enocean alliance No Wires. No Batteries. No Limits.

# **System Specification**

## **EEP Family Tables:**

Each line in the Family Table describes a parameter which is part of the message(s) of the marked Family Members (= column in the table / TYPE).

### Line Powered devices:

Туре	0x00	0x01	0x02	0x03	0x04	0x05
Temperature Sensor, TMP9	050	050		050	050	050
Humidity Sensor, HUM	Χ	Χ		X	X	X
Illumination Sensor, ILL					Х	Х
VOC Sensor [CO2-equiv.], VOC			02000	02000		02000
Freely Programmable Button A, BA		X				
Freely Programmable Button B, BB		X				

Туре	0x06	0x07	0x08	0x09	0x0A
Temperature Sensor, TMP9		050	050	050	050
Humidity Sensor, HUM		X	Χ	X	Χ
Illumination Sensor, ILL			X		Х
VOC Sensor [CO2-equiv.], VOC				02000	02000
CO2 Sensor, CO2	02000	02000	02000	02000	02000

Туре	0x0B	0x0C	0x0D	0x0E	0x0F	0x10
Temperature Sensor, TMP9	050		050	050	050	050
Humidity Sensor, HUM	X		X	Χ	X	X
VOC Sensor [CO2-equiv.], VOC			02000	02000		02000
VOC Sensor, TVOC	01150					
CO2 Sensor, CO2				02000		
CO2 Sensor, CO2		05000				
Barometer Sensor, BAR					X	
Room Occupancy Sensor, PR						X
Freely Programmable Button A, BA			X	Х		

## Autonomous devices (indoor):

Туре	0x1A	0x1B	0x1C	0x1D
Temperature Sensor, TMP9	050	050	050	050
Humidity Sensor, HUM	X	X	X	X
Illumination Sensor, ILL		X		X
Energy Storage Status, ES	Χ	X	X	X
Barometer Sensor, BAR			X	X

Туре	0x30	0x31
Temperature Sensor, TMP8	050	050
Humidity Sensor, HUM	X	X
Smoke Alarm, SMA	X	
CO Alarm, COA		X
CO Sensor, CO		01000
Energy Storage Status, ES	Х	X
Remaining Product Life Time, RPLF	120	120
Hygrothermal Comfort Index, HCI	Х	X
T/Hum. Indoor Air Analysis, IAQTH	X	X
CO Indoor Air Analysis, IAQCO		X

## Autonomous devices (outdoor):

Туре	0x20	0x21	0x22	0x23	0x24
Temperature Sensor, TMP9	-4060	-4060	-4060	-4060	
Humidity Sensor, HUM	X		Х		
Illumination Sensor, ILL	X			X	X
Energy Storage Status, ES	X	X	Х	X	X

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RORG	D2	VLD Telegram
FUNC	14	Multi Function Sensors
TYPE	31	Sensor for CO, Air quality, Hygrothermal comfort, Temperature and Humidity

## Submitter: Nexelec

For the parameter ES (energy storage) applies: manufacturers / devices which would like to indicate a percentage value it is recommended to handle this in the user manual of the device, respectively an application note.

	TYP	E 0x	31																														
Data Byte				DB	_6			DB_5								DB_4							DB_3										
DB Bit	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	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	
Data							COA							Е	S				RP	LT							С	0				TMP	
;																																	
				DB	_2							DB	_1							DB	_0												
DB Bit		_	_	-	_	_	-	_	_	-	-		-	2	-	0	7	6	-	4	2	2	4	0	1								
DD DIL	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	U	-	ь	5	4	٥	- 2	1	0									
Bit Offset	32	33	31	35	36	37	38	39	10	11	12	13	11	15	16	17	18	19	50	51	52	53	51	55									

Offset	Size	Data	ShortCut	Description	Valid Range Scale Unit
0	1	CO Alarm status	COA	CO Alarm status	Enum:  0: CO Alarm non-activated  1: CO Alarm activated
1	1	Sensor fault mode status	COA	Sensor fault mode status	Enum:  0: Sensor Fault mode non-activated  1: Sensor Fault mode activated
2	1	CO Alarm Condition analysis: Maintenance	COA	CO Alarm Condition analysis: Maintenance	Enum:  0: Maintenance OK  1: Maintenance not done
3	1	CO Alarm Condition analysis: Humidity	COA	CO Alarm Condition analysis: Humidity	Enum:  0: Humidity range OK  1: Humidity range NOK
4	1	CO Alarm Condition analysis: Temperature	COA	CO Alarm Condition analysis: Temperature	Enum:  0: Temperature range OK  1: Temperature range NOK
5	8	Time since last maintenance	COA	Time since last maintenance	Enum:  0250: Week  0250  251254: Reserved  255: Error
13	2	Energy Storage	ES	Energy Storage Status	Enum:  0: High  1: Medium  2: Low

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15						3: Critical
	15	8	Remaining Product	RPLT	Countdown time in month	
121254; Reserved   255;   Error	13			IXI EI	until product end of life	
255; Error						
255; Error						121254: Reserved
23						
Status of CO Sensor	23	8	co	co	CO (linear)	
Status of CO Sensor   1000	23	o	CO			
Second   S					Status of CO Sensor	
Table   Tabl						
Section   Parameter   Parame						
Status of Temperature   Sensor   Sens	31	8	Temperature	TMP8	Temperature (linear)	
Status of Temperature   Sensor   Sens	31		Temperature	THEO		
Sensor						
1						
Second   S						
Status of Humidity Sensor	39	8	Humidity	ним	Rel Humidity (linear)	
Status of Humidity Sensor   201254: Reserved   255: Error   Enum:   1	33	Ĭ	Trainiarcy	11011		
A					Status of Humidity Sensor	
A						
Hygrothermal Comfort Index   HCI Index   Index   HCI Index   Comfort Index based on temperature and humidity   1: Medium   2: Bad   3: Error						
Tindex  temperature and humidity  temperature and humidity  0: Good 1: Medium 2: Bad 3: Error  49  3 T/Hum. Indoor Air Analysis  IAQTH Analysis  IAQCO Indoor Air quality analysis based on CO  Indoor Air Analysis Based on CO  Indoor Air quality analysis Based on CO  Indoor Air Analysis Based on CO  Indoor Air quality analysis Based on CO  Indoor Air Analysis Based on CO  Indoor Air Quality analysis Based on CO  Indoor Air Analysis Based on CO  Indoor Air Analysis Based on CO  Indoor Air Quality analysis Based on CO  Indoor Air Analysis Based on CO  Indoor Air Quality analysis Based on CO  Indoor Air Analysis Based on CO	47	2	Hygrothermal Comfort	HCI	Comfort Index based on	
1: Medium 2: Bad 3: Error  49 3 T/Hum. Indoor Air Analysis  IAQTH Analysis IAQTH Analysis IAQTH Analysis IAQTH Analysis IAQTH Analysis IAQTH Indoor Air quality analysis based on CO  Indoor Air quality analysis Based II Medium II	.,	2				
Thum. Indoor Air Analysis   IAQTH   Indoor Air quality analysis based on temperature and humidity   Indoor Air quality analysis based on temperature and humidity   Indoor Air quality analysis   Indoor Air quality analysis   Indoor Air quality analysis   Indoor Air quality analysis range   Indoor Air quality analysis range   Indoor Air quality analysis						
Thum. Indoor Air Analysis   IAQTH Analysis   IAQTH Analysis   IAQTH Analysis   IAQTH Analysis   IAQTH Analysis   IAQCO   Indoor Air quality analysis based on temperature and humidity   IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
49 Analysis  T/Hum. Indoor Air Analysis  Based on temperature and humidity  Indoor Air quality analysis based on temperature and humidity  Indoor Air quality analysis based on temperature and humidity range  1: Dry Air range  2: High humidity range  3: High temperature and humidity range  4: Temperature or Humidity out of analysis range  Reserved  56:  7: Error  52  2 CO Indoor Air Analysis IAQCO  Indoor Air quality analysis based on CO  Indoor Air Analysis based on CO						
Analysis    Document	49	3	T/Hum. Indoor Air	IAOTH	Indoor Air quality analysis	
2: High humidity range  3: High temperature and humidity range  4: Temperature or Humidity out of analysis range  Reserved  56:  7: Error   22 CO Indoor Air Analysis IAQCO Indoor Air quality analysis based on CO  Indoor Air Analysis Bad					based on temperature and	
3: High temperature and humidity range  4: Temperature or Humidity out of analysis range  Reserved  56:  7: Error  52 2 CO Indoor Air Analysis IAQCO Indoor Air quality analysis based on CO  Indoor Air Quality analysis based on CO  Enum:  0: Good  1: Medium  2: Bad  3: Error						1: Dry Air range
Frange  4: Temperature or Humidity out of analysis range  Reserved  56:  7: Error   2 CO Indoor Air Analysis IAQCO  Indoor Air quality analysis based on CO  Indoor Air Analysis Enum:  O: Good  I: Medium  2: Bad  3: Error						2: High humidity range
4: Temperature or Humidity out of analysis range Reserved 56: 7: Error  52 2 CO Indoor Air Analysis IAQCO Indoor Air quality analysis based on CO Indoor Air Quality analysis based on CO  Enum: 0: Good 1: Medium 2: Bad 3: Error						
Reserved						4: Temperature or Humidity out of
56:   7: Error						
7: Error  CO Indoor Air Analysis IAQCO Indoor Air quality analysis based on CO  Indoor Air quality analysis based on CO  Enum:  0: Good  1: Medium  2: Bad  3: Error						
52 2 CO Indoor Air Analysis IAQCO Indoor Air quality analysis based on CO    Sood						
based on CO  0: Good  1: Medium  2: Bad  3: Error						21101
based on CO  0: Good  1: Medium  2: Bad  3: Error	52	2	CO Indoor Air Analysis	IAQCO	Indoor Air quality analysis	Enum:
1: Medium 2: Bad 3: Error				·		
2: Bad 3: Error						
3: Error						
	54	2	Not Used (= 0)			

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