

D2: VLD Telegram

D2 - 14: Multi Function Sensors

Submitter: Echoflex Solutions

Description

Indoor Smarthome Multisensor

Data exchange

Direction: unidirectional.

EEP Family Table

Each TYPE has to support all telegrams and parameters marked in its column.

Parameters Overview	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
humidity	Х	Х	-	Х	Х	Х	-	Χ	Χ	Χ	Х	Х	-	Х	Х	Х
ButtonAl	-	Х	-	-	-	-	-	-	-	-	-	-	-	Х	Χ	-
ButtonBI	-	Х	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Voc	-	-	Х	Х	-	Χ	-	-	-	Χ	Χ	Χ	-	Χ	Χ	-
Illumination	-	-	-	-	Χ	Х	-	-	Χ	-	Х	-	-	-	-	-
Co2	-	-	-	-	-	-	Χ	Χ	Χ	Χ	Χ	-	Χ	-	Χ	-
Barometer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Х
Occupancy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Energy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
temperature	Х	Х	-	Х	Х	Х	-	Χ	Χ	Х	Х	Х	-	Х	Х	Х
Button A	-	Х	-	-	-	-	-	-	-	-	-	-	-	Х	Х	-
Button B	-	Х	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TVOC	-	-	-	-	-	-	-	-	-	-	-	Х	-	-	-	-
Presence	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
battery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ColorTemperature	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smoke Alarm status	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sensor fault mode status	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smoke Alarm Condition analysis: Maintenance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smoke Alarm Condition analysis: Humidity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smoke Alarm Condition analysis: Temperature	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Time since last maintenance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Remaining Product Life Time	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hygrothermal Comfort Index	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T/Hum. Indoor Air Analysis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO Alarm status	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO Alarm Condition analysis: Maintenance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO Alarm Condition analysis: Humidity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO Alarm Condition analysis: Temperature	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO Indoor Air Analysis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Oxygen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acceleration X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acceleration Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acceleration Z	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[-]
Acceleration Status	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
contact	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Leak Detection	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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EnOcean Equipment Profiles

Past Leak Detection	-	-	-	-	-	-	-	-	-	ļ-	 -	-	-	-	-	-
RMS Current	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Power Factor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Real Power	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Parameters Overview	10	1A	1B	1C	1D	20	21	22	23	24	25	30	31	40	41	50
humidity	Х	Χ	Χ	Χ	Χ	Χ	-	Χ	-	-	-	Χ	Χ	Χ	Χ	-
ButtonAl	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
ButtonBI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Voc	Х	-	-	-	-	-	-	-	-	-	-	-	-		<u> -</u>	-
Illumination	-	-	Χ	<u> -</u>	Χ	Χ	-	-	Х	Χ	Χ	-	-	Χ	Χ	
Co2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barometer	-	-	-	Х	Х	-	-	-	-	-	-	-	-	-	-	-
Occupancy	Х	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Energy		Χ	Χ	Χ	Х	Χ	Χ	Χ	Х	Χ	-	-	-	-	-	-
temperature	Х	Χ	Х	Χ	Х	Х	Х	Χ	Χ	-	-	Χ	Х	Χ	Χ	Χ
Button A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Button B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TVOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Presence	Х	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
battery	-	Х	Х	Х	Х	Х	Х	Х	Х	Χ	-	Х	Х	-	-	-
ColorTemperature	-	-	-	-	-	-	-	-	-	-	Χ	-	-	-	-	-
Smoke Alarm status	-	-	-	-	-	-	-	-	-	-	-	Х	-	-	-	-
Sensor fault mode status	-	-	-	-	-	-	-	-	-	-	-	Х	Х	-	-	-
Smoke Alarm Condition analysis: Maintenance	-	-	-	-	-	-	-	-	-	-	-	Х	-	-	-	-
Smoke Alarm Condition analysis: Humidity	-	-	-	-	-	-	-	-	-	-	-	Х	-	-	-	-
Smoke Alarm Condition analysis: Temperature	-	-	-	-	-	-	-	-	-	-	-	Х	-	-	-	-
Time since last maintenance	-	-	-	-	-	-	-	-	-	-	-	Х	Х	-	-	-
Remaining Product Life Time	-	-	-	-	-	-	-	-	-	-	-	Х	Х	-	-	-
Hygrothermal Comfort Index	-	-	-	-	-	-	-	-	-	-	-	Х	Х	-	-	-
T/Hum. Indoor Air Analysis	-	-	-	-	-	-	-	-	-	-	-	Х	Х	-	-	-
CO Alarm status	-	-	-	-	-	-	-	-	-	-	-	-	Х	-	-	-
CO Alarm Condition analysis: Maintenance	-	-	-	-	-	-	-	-	-	-	-	-	Х	-	-	-
CO Alarm Condition analysis: Humidity	-	-	-	-	-	-	-	-	-	-	-	-	Х	-	-	-
CO Alarm Condition analysis: Temperature	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CO	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CO Indoor Air Analysis	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
PH	<u> </u>	-	-	-	-	-	-	-	-	-	-	-	-	 	 -	Х
Dissolved Oxygen	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-
Acceleration X	-	-	-	-	-	-	-	-	-	-	-	-	-	Х	Х	-
Acceleration Y	-	_	_	-	_	-	_	_	_	_	_	-	-	X	X	-
Acceleration Z	-	-	-	-	_	-	_	_	_	_	_	-	-	X	X	
Acceleration Status	 	-	_	-	-	-	_	_	_	_	_	-	-	X	X	-
contact	-	-	-	 -	-	-	-	-	-	_	-	 -	 	-	X	-
Leak Detection	 	 	-	 	 	-	-	 	 	-	 	 	 	 	 ^ -	- -
Past Leak Detection	Ε-	Ι <u>-</u>	-	-	-	Ε_	-	Ε	Ε	-	-	Ι <u>-</u>	-	Ι <u>-</u>	[-
RMS Current	Ē	-	-	 -	<u> </u>	-	-	_	- _	-	-	-	 -	-	 -	-
Power Factor	H	-	-	⊢	H	-	-	H	F	-	-	i –	-	-	⊢	-
	Ι-	-	<u> </u>	Ι-	-	-	-	-	-	_	-	-	-	_	-	-
Real Power	-	-	-	<u> </u>	-	<u> </u>	-	-	-	-	-	-	ļ -	-	<u> </u>	-

Parameters Overview	51	52	53	55
humidity	-	-	Χ	-
ButtonAl	-	-	-	-
ButtonBI	-	-	-	-
Voc	-	-	-	-
Illumination	-	-	-	-
Co2	-	-	-	-
Barometer	-	-	-	-
Occupancy	-	-	-	-
Energy	-	-	-	-
temperature	Х	-	Х	-



EnOcean Equipment Profiles

Button B -<					
TVOC -	Button A	-	-	-	-
Presence -<	24.02	-	-	-	-
battery - </td <td>TVOC</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	TVOC	-	-	-	-
ColorTemperature -	Presence	-	-	-	-
Smoke Alarm status -		-	-	-	-
Sensor fault mode status Smoke Alarm Condition analysis: Maintenance Smoke Alarm Condition analysis: Humidity Smoke Alarm Condition analysis: Temperature Time since last maintenance Remaining Product Life Time Hygrothermal Comfort Index T/Hum. Indoor Air Analysis CO Alarm status CO Alarm Condition analysis: Maintenance CO Alarm Condition analysis: Humidity CO Alarm Condition analysis: Temperature CO Alarm Condition analysis: Temperature CO Indoor Air Analysis PH Dissolved Oxygen Acceleration X Acceleration Y Acceleration Status Contact Leak Detection Past Leak Detection RMS Current Power Factor	ColorTemperature	-	-	-	-
Smoke Alarm Condition analysis: Maintenance Smoke Alarm Condition analysis: Humidity Smoke Alarm Condition analysis: Temperature Time since last maintenance Remaining Product Life Time Hygrothermal Comfort Index T/Hum. Indoor Air Analysis CO Alarm Status CO Alarm Condition analysis: Maintenance CO Alarm Condition analysis: Humidity CO Alarm Condition analysis: Temperature CO Alarm Condition analysis: Temperature CO Indoor Air Analysis PH Dissolved Oxygen Acceleration X Acceleration Y Acceleration Status Contact Leak Detection RMS Current Power Factor	Smoke Alarm status	-	-	-	-
Smoke Alarm Condition analysis: Humidity	Sensor fault mode status	-	-	-	-
Smoke Alarm Condition analysis: Temperature	Smoke Alarm Condition analysis: Maintenance	-	-	-	-
Time since last maintenance -<	Smoke Alarm Condition analysis: Humidity	-	-	-	-
Remaining Product Life Time -<	Smoke Alarm Condition analysis: Temperature	-	-	-	-
Hygrothermal Comfort Index -	Time since last maintenance	-	-	-	-
T/Hum. Indoor Air Analysis -	Remaining Product Life Time	-	-	-	-
T/Hum. Indoor Air Analysis -	Hygrothermal Comfort Index	-	-	-	-
CO Alarm Condition analysis: Maintenance -	T/Hum. Indoor Air Analysis	-	-	-	-
CO Alarm Condition analysis: Humidity -	CO Alarm status	-	-	-	-
CO Alarm Condition analysis: Temperature -	CO Alarm Condition analysis: Maintenance	-	-	-	-
CO Alarm Condition analysis: Temperature -	CO Alarm Condition analysis: Humidity	-	-	-	-
CO Indoor Air Analysis - <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		-	-	-	-
PH -	CO	-	-	-	-
PH -	CO Indoor Air Analysis	-	-	-	-
Acceleration X -		-	-	-	-
Acceleration X -	Dissolved Oxygen	Х	-	-	-
Acceleration Z -		-	-	-	-
Acceleration Status -	Acceleration Y	-	-	-	-
contact - </td <td>Acceleration Z</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	Acceleration Z	-	-	-	-
Leak Detection - X X - Past Leak Detection - X X - RMS Current - - - X Power Factor - - - X	Acceleration Status	-	-	-	-
Past Leak Detection - X X - RMS Current - - - X Power Factor - - - X	contact	-	-	-	-
Past Leak Detection - X X - RMS Current - - - X Power Factor - - - X	Leak Detection	-	Х	Х	-
RMS Current - - - X Power Factor - - - X	Past Leak Detection	-	Х	Х	-
		-	-	-	Х
Real Power X	Power Factor	-	-	-	Х
	Real Power	-	-	-	Х

RORG	D2	VLD Telegram
FUNC	14	Multi Function Sensors
TYPE	55	Power Use Monitor

 $\frac{\text{Description}}{\text{This EEP reports RMS current, real power, and power factor.}} \, .$

Data exchange Direction: to.

Addressing: broadcast.

Communication trigger: time_trigger.

Trigger description: . Timing description:

Offset	Size	Data	Description	Valid Range		Scale	Unit	Trigger
0	16	RMS Current	Instantaneous RMS current	Enum:				
				0 65534 :	0 65534	mA		
				65535 :	Error			
16	8	Power Factor	Instantaneous power factor	Enum:				
				0 200 :	0 100	%		

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				201 254 :	Reserved		
24	16	Real Power	Instantangous real newer	255 : Enum:	Error		
24	10	Real Fower	Instantaneous real power	0 65534 :	0 65534	W	
				65535 :	Error		

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