

AL-431-00-868 EnOcean Multisensor (868 MHz)

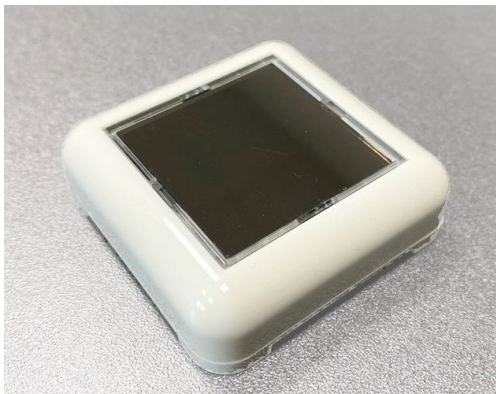
"EnoSense® Wall & Desk", 50 x 50 x 13 mm

Multi-Sensor for installation on desks or walls

Vibration (optional brightness / temperature / humidity / magnet contact)

Interfaces:

EnOcean, NFC, power supply: integrated solar cell + backup battery CR1632



The **EnoSense® Wall & Desk** is a flexible self-powered multisensor module capable of measuring temperature, humidity, illumination, magnet contact status and acceleration. It enables the realization of energy harvesting wireless sensors for light, building or industrial control systems communicating using the EnOcean radio standard.

The housing of the **EnoSense® Wall & Desk** has dimension of approx. 50 x 50 x 13 mm, and has been designed to be mounted on top or below a table.

The **EnoSense® Wall & Desk** integrates the following sensors:

- Vibration / acceleration
- Temperature
- Humidity
- Illumination
- Magnet contact

Note:

Sensor will be configured in standard configuration as "Vibration detector", EEP: A5-14-05.

Technical data
Interfaces

Type	EnOcean
Number	1
Transmit / Receive frequency	868,3 MHz
Occupied frequency band	868,0 – 868,6 MHz
Maximum transmission power	Typ. +5 dBm

Type	NFC
Number	1

User interfaces

Button	Yes, LRN-button
LED	Yes, indicates data transmission

Housing / connectors

Connector	-
Housing	PA12, white

Sensors: Rel. humidity

Measuring range	0 – 100 %
Accuracy	± 3 %

Sensors: Temperature

Measuring range	- 20 – 60 °C
Accuracy	± 0,3 °C

Sensors: Accelerometer

Measuring range	± 2 g
Sensitivity	0,03 g

Sensors: Brightness

Measuring range	0 – 65.000 lux
Accuracy	± 10 %

Power supply

Supply voltage	Integrated solar cell
Backup battery	CR1632

Dimensions and weight

Weight	29 g
Dimensions	50 x 50 x 17 mm

Environmental conditions

Operating temperature	-5°..+40°C
Storage temperature	-20°..+70°C
Humidity	0..99% rel. humidity, noncondensing
Protection class	IP20

Approvals



CE	2014/53/EU RED-directive 2011/65/EU + Annex 2015/863/EU RoHS-3 directive
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Table of supported EEP's (EnOcean Equipment Profile)

Transmit/ TX

Cons. nr.	EEP	Description
1	D2-14-41	Indoor -Temperature, Humidity XYZ Acceleration, Illumination Sensor
2	D2-14-40	Indoor -Temperature, Humidity XYZ Acceleration, Illumination Sensor
3	A5-02-05	Temperature Sensor Range 0°C to +40°C
4	A5-04-01	Range 0°C to +40°C and 0% to 100%
5	A5-04-03	Range -20°C to +60°C 10bit-measurement and 0% to 100%
6	A5-06-02	Range 0lx to 1.020lx
7	A5-06-03	10-bit measurement (1-Lux resolution) with range 0lx to 1000lx
8	A5-14-01	Single Input Contact (Window/Door), Supply voltage monitor (DEFAULT)
9	A5-14-05	Vibration detector (DEFAULT)

Ordering Information (only different colors)

Article text	Part nr..	Part description
<p>AL-431-00-868 EnOcean Multisensor "EnoSense Wall & Desk" / beige / CE</p> 	12286	<p>Multi-sensor EnOcean "EnoSense Desk", for installation in table tops; Measuring ranges: Temperature -20 ° .. + 60 ° C; Humidity 0..100% r.h ; Brightness 0..65.000 lux; Acceleration +/- 2 g; Magnetic contact; Ambient temp .: -5 ° .. + 45 ° C / 0 .. 90% r.h .; Dimensions: 70 x 12 mm; for drilling diameter 60 mm</p> <p>EEP: A5-14-05 (default), D2-14-41, D2-14-40, A5-02-05, A5-04-01, A5-04-03, A5-06-02, A5-06-03, , D5-00-01;</p> <p>Power supply: integrated solar cell, Backup battery: CR1632;</p> <p>EnOcean 868 MHz, CE, housing: PC, beige (similar to RAL 9010 / pure white);</p>
<p>AL-431-00-868 EnOcean Multisensor "EnoSense Wall & Desk" / black / CE</p> 	12471	<p>Multi-sensor EnOcean "EnoSense Desk", for installation in table tops; Measuring ranges: Temperature -20 ° .. + 60 ° C; Humidity 0..100% r.h ; Brightness 0..65.000 lux; Acceleration +/- 2 g; Magnetic contact; Ambient temp .: -5 ° .. + 45 ° C / 0 .. 90% r.h .; Dimensions: 70 x 12 mm; for drilling diameter 60 mm</p> <p>EEP: A5-14-05 (default), D2-14-41, D2-14-40, A5-02-05, A5-04-01, A5-04-03, A5-06-02, A5-06-03, , D5-00-01;</p> <p>Power supply: integrated solar cell, Backup battery: CR1632;</p> <p>EnOcean 868 MHz, CE, housing: PC, Signal black (RAL 9004);</p>
<p>AL-431-00-868 EnOcean Multisensor "EnoSense Wall & Desk" / white / CE</p> 	12479	<p>Multi-sensor EnOcean "EnoSense Desk", for installation in table tops; Measuring ranges: Temperature -20 ° .. + 60 ° C; Humidity 0..100% r.h ; Brightness 0..65.000 lux; Acceleration +/- 2 g; Magnetic contact; Ambient temp .: -5 ° .. + 45 ° C / 0 .. 90% r.h .; Dimensions: 70 x 12 mm; for drilling diameter 60 mm</p> <p>EEP: A5-14-05 (default), D2-14-41, D2-14-40, A5-02-05, A5-04-01, A5-04-03, A5-06-02, A5-06-03, , D5-00-01; Power supply: integrated solar cell, Backup battery: CR1632; EnOcean 868 MHz, CE, housing: PC, signal white (RAL 9003)</p>

Note according to FuAG §20 Abs. 4

This device is only approved for use within the member states of the European Union.

EU declaration of conformity

DEUTA Controls GmbH hereby declares that the radio system type **AL-431-00-868 EnoSense Wall & Desk** complies with Directive 2014/53 / EU (RED) and 2011/65/EU + Annex 2015/863/EU (RoHS-3) directives.

The full text of the EU declaration of conformity is available at the following Internet address: www.deuta-controls.de in the Service / Downloads area (Doc. EUDC2021_199).

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