

AL-440-00-868 EnoSense® NOISE

Product data sheet

Page 1 of 6

AL-440-00-868 EnOcean Sensor “EnoSense® NOISE” / CE

Sensor for sound pressure level, energy harvesting with solar cell, EnOcean 868 MHz / CE

Part nr. 12620 (white) / 12621 (black)

Interfaces:

Integrated sensor for sound pressure level

1x EnOcean (internal antenna), power supply: solar cell, optional batteries 2x AAA, 67 x 116 x 23 mm



Front view

Rear view, with wall bracket (left)

The self-powered **AL-440-00-868 EnoSense® NOISE** sensor is used to measure the following values:

- Sound pressure level (dB SPL)

Technical data

Interfaces

Type	EnOcean
Number	1
Transmit / Receive frequency	868.3 MHz ASK
Occupied frequency band	868.0 – 868.6 MHz
Maximum	+5 dBm

Sensor: Noise / Sound pressure level

Measuring range	35 .. 80 dB SPL
-----------------	-----------------

User interfaces

Service button	Yes, operated through a hole in the back panel
Service LED	Yes, internal (green)

Housing

Material	PC
----------	----

Power supply

Power supply	Integrated solar cell
Batteries	Optional, 2x AAA

Environmental conditions

Operating	0° .. +50 °C
Storage	-15° .. +60 °C
Humidity	0 .. 99 % rel. humidity, non condensing
Protection class	IP20

Dimensions and weight

Weight	111 g incl. Batt
Dimensions	ca. 67 x 116 x 24 mm

Standards / approvals

CE	2014/53/EU RED directive
	2011/65/EU + Annex
	2015/863/EU RoHS-3 directive

AL-440-00-868 EnoSense® NOISE

Product data sheet

Page 3 of 6

Table of supported EEP (EnOcean Equipment Profile)

Transmit / TX

Nr.	EEP	Description	TX-ID
1	47-D1-07-11	<ul style="list-style-type: none">Sound pressure level	EURID

Receive / RX

Nr..	EEP	Description
-	-	-

Device description

Power supply

When ambient light (daylight or artificial light) is sufficient, the EnoSense® NOISE is powered exclusively by the integrated solar cell. In addition, the device can be equipped with two batteries (AAA) to support the solar cell.

EnOcean

The integrated EnOcean transceiver cyclically transmits the measured values to a building management system using unidirectional EnOcean communication.

Mechanics / assembly

The device can be attached to the wall using the enclosed wall bracket. Mounting with an adhesive strip is also possible thanks to the smooth back of the device.
The assembly should take place at a typical height of approx. 1.75 m.

Functions of the EnoSense® NOISE / measurement technology

Noise / sound pressure level measurement

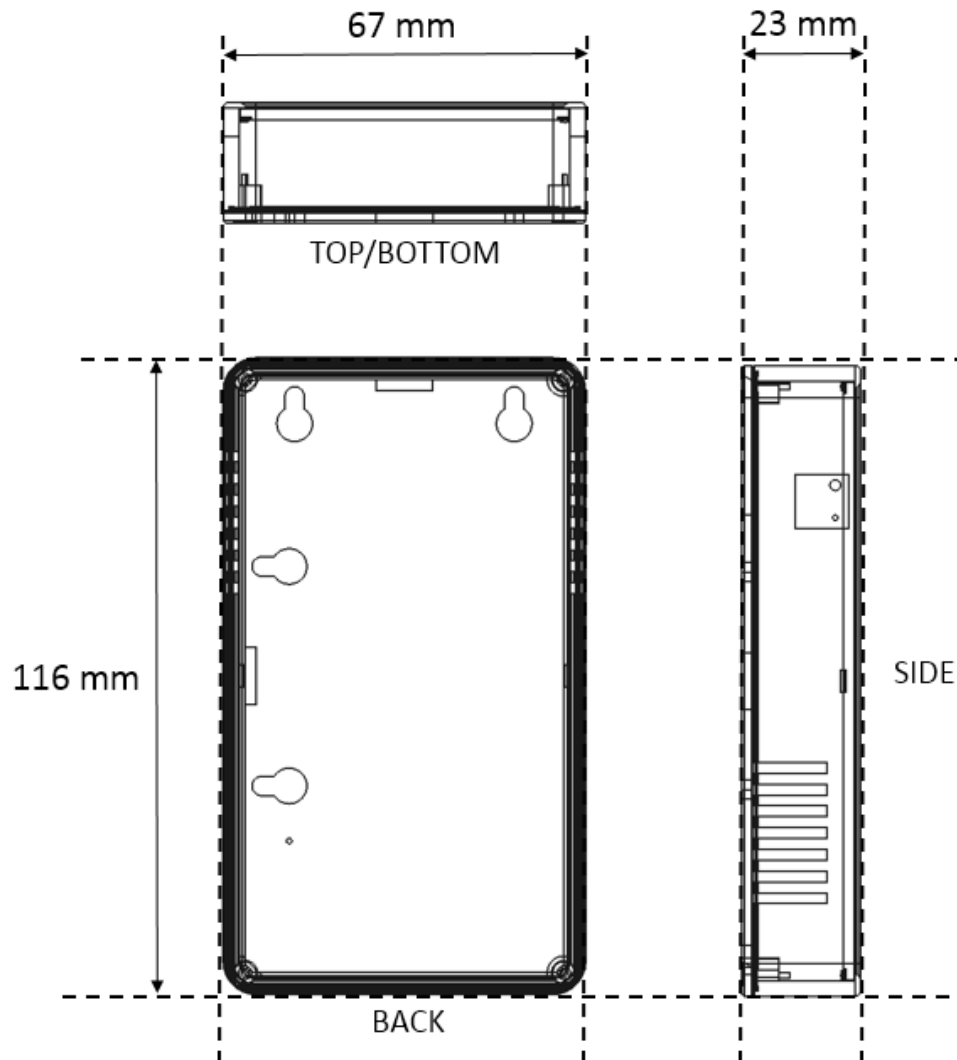
If the energy level is sufficient, the device sends the measured values for Sound pressure level all 240 secs.

In the dark, the device reduces the transmission interval to a time of approx. 60 minutes to save energy.

Supply voltage monitoring / maintenance

To support remote maintenance, the values of the supply voltage and the current solar voltage are measured and sent via EnOcean in every message.

Dimensions: 67 mm x 116 mm x 23 mm



Ordering information

Article name	Part nr.	Part description
AL-440-00-868 EnOcean Sensor „EnoSense® NOISE“ / white / CE	12620	Sensor EnOcean "EnoSense® NOISE ", for measuring sound pressure level; for wall mounting with/without holder; EP: 47-D1-09-01; Supply: internal solar cell, optional batteries 2x AAA; dimensions 67 x 116 x 23mm, EnOcean 868 MHz, CE, Housing: PC, white (similar to RAL 9010 / pure white); incl. wall bracket
AL-440-00-868 EnOcean Sensor „EnoSense® NOISE“ / black / CE	12621	Sensor EnOcean "EnoSense® NOISE ", for measuring sound pressure level; for wall mounting with/without holder; EP: 47-D1-09-01; Supply: internal solar cell, optional batteries 2x AAA; dimensions 67 x 116 x 23mm, EnOcean 868 MHz, CE, Housing: PC, signal black (RAL 9004); incl. wall bracket

Note according to FuAG §20 paragraph 4:

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

EU Declaration of Conformity

DEUTA Controls GmbH hereby declares that the radio system type AL-439-00-868 EnoSense® NOISE complies with Directive 2014/53/EU. 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. EUDC2023_101).

Version 05, 07.09.2023
