

# TECHNICAL DATASHEET

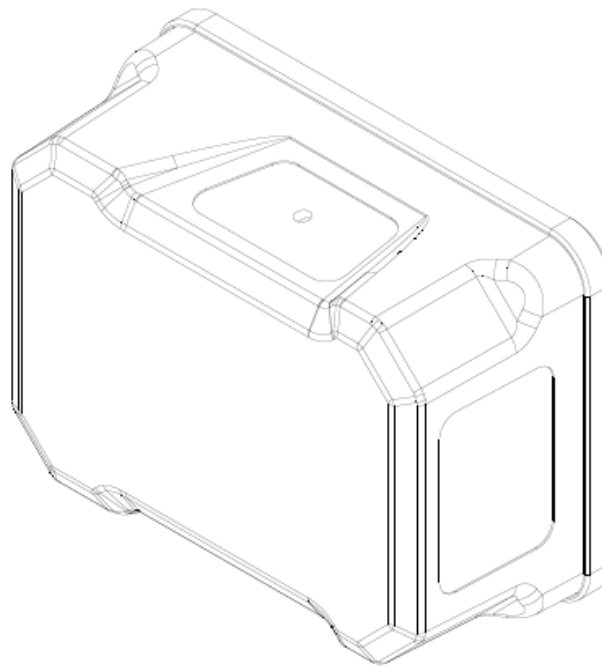


The information contained in this document is subject to change.

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## 10067

## Vibration sensor powered by energy harvester



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# SPECIFICATION

## Power supply:

Patented Electromagnetic generator.

Working frequency span:

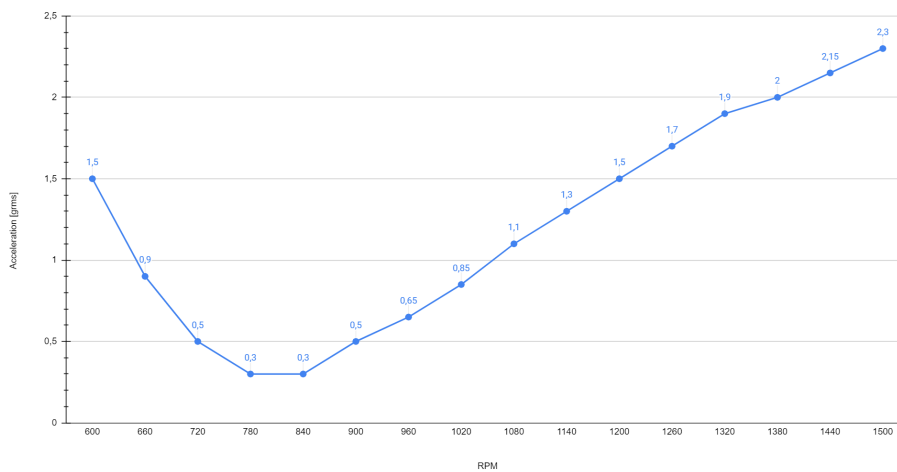
10-22Hz (600-1320RPM) @  $\geq 1.5\text{gRMS}$ .

Nominal rechargeable energy storage 1.32 Wh.

## Vibration required for continuous operation:

Acceleration required for continuous operation

*Body sensor configuration: Sampling rate 1kHz, duration: 3 seconds, interval: 5 minutes. Running 8h/day*



## Power consumption:

Sampling rate 1024Hz, duration: 3 seconds, interval: 5 minutes

~8 mW

Sampling rate 8192Hz, duration: 5 seconds, interval: 5 minutes

~10 mW

Stand-by

~600 uW

Shelf mode

~4 uW

## Enclosure material:

Bottom plate: Anodized aluminum alloy, "Orange".

Casing: PA6, Black.

## Ingress protection:

IP67

**Typical weight w. pot magnets:**

750g.

**Dimensions: (excluding mounting accessories.)**

135x98x60 (height x width x depth)

**Dimensions: (w. pot magnets.)**

135x98x64 (height x width x depth)

**Operating Temperature:**

-40°C to +80°C

**Storage Temperature:**

0°C to +45°C (-40°F to +140°F)

**Relative humidity:**

0 to 95%, non-condensing

**Mounting interface:**

3x Pot magnets / Universal AMPS 4xM5 hole pattern, 30x38mm.

**Radio communication:**

Tx Power:

0 dBm

Rx Sensitivity:

-98 dBm

Data Rates:

Up to 1 Mbps

Frequency:

2.400 to 2.483 GHz

Antenna Gain:

typ. 6dBi

**Acceleration measurements:**

3 Axis MEMS accelerometer

TDK InvenSense IIM-42352

Range

±16g

Sampling rate

Selectable: 256, 512, 1024, 2048, 4096, 8192, 16384.

Accelerometer measurement range

XY-plane: dc to 4kHz ( $\pm 3$  dB point)

Z-axis dc to 1.6kHz ( $\pm 3$  dB point)

**Temperature sensor measurement accuracy:**

Typ.  $\pm 0.5$  °C -40°C to 125°C

Typ.  $\pm 0.25$ °C, 0°C to +65°C

**Edge data storage:**

Non persistent 64Mbit RAM.

**Environmental Testing:**

Information on any environmental testing the product has undergone, such as shock resistance, vibration resistance, and any certifications obtained (e.g., MIL-STD-810G, IP ratings).

**Expected product lifetime:**

5 years

## SERVICE

**Warranty:**

ReVibe represents and warrants that: (i) the products are free from defects resulting from faulty design or workmanship, (ii) the products are fit and safe for the intended purpose and use, which is known to ReVibe; and (iii) the product documentation is adequate and clear.

The responsibility of ReVibe under the warranties shall be limited to defects which occur during the warranty period or which can be satisfactorily demonstrated to have been in the products during the warranty period. Buyer shall promptly notify ReVibe of any defects in the Goods and ReVibe shall, at its discretion and without delay, repair or replace the defective products at ReVibe's cost.

ReVibe is not responsible under the warranties for defects caused by (i) a failure by Buyer to follow the instructions in the product documentation, (ii) modifications or alterations made to the products after the delivery without the prior consent of ReVibe, or (iii) materials or structures prescribed or provided by Buyer. Further, the ReVibe is not responsible under the warranties for normal wear and tear, nor misuse of the products.

Warranty is void if original components of the product are replaced with non-original components.

The warranty period shall be 24 months from the date of installation and commissioning, or 36 months from the date of the completed delivery of the products to Buyer, whichever is longer.

Notwithstanding the warranty period provided to Buyer as set out above, in the event of defective products repaired or replaced by Supplier, a new warranty period of 24 months shall commence on the date Buyer accepts the repaired or replaced products. The new warranty period is only intended for the replaced goods, not for any other goods delivered in the same shipments.

If Buyer has given notice of a defect product and no defect is found for which ReVibe is liable, ReVibe shall be entitled to compensation for reasonable and verifiable costs he incurs as a result of the notice.

If a defect in the products is such that Buyer decides it appropriate to carry out a product recall to repair or replace the defective products, Buyer shall promptly notify ReVibe. ReVibe shall at its own cost give such assistance to Buyer as is reasonably requested and pay for Buyer's expenses resulting from such product recall.

2 years from delivery date.

Revibe Energy replaces the unit with a non faulty unit. Customer pays for delivery to the ReVibe office in Sweden. ReVibe pays for delivery to customers.

For non faulty units, the customer pays for delivery both ways and a fault search fee.

#### **Support:**

Information on warranty coverage, support channels, and contact details for technical assistance can help users troubleshoot issues or seek further assistance when needed.

#### **Contact:**

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