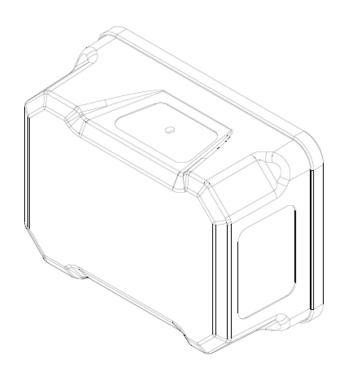
TECHNICAL DATASHEET



10067

Vibration sensor powered by energy harvester



SPECIFICAT	TION	3
	Power supply:	
	Vibration required for continuous operation:	
	Power consumption:	3
	Enclosure material:	3
	Ingress protection:	
	Typical weight w. pot magnets:	
	Dimensions: (excluding mounting accessories.)	
	Dimensions: (w. pot magnets.)	
	Operating Temperature:	4
	Storage Temperature:	4
	Relative humidity:	4
	Mounting interface:	4
	Radio communication:	4
	Acceleration measurements:	5
	Temperature sensor measurement accuracy:	5
	Edge data storage:	5
	Timesyncronization offset:	5
	Expected product lifetime:	5
CONTACT		5

SPECIFICATION

Power supply:

Patented Electromagnetic generator.

Working frequency span:

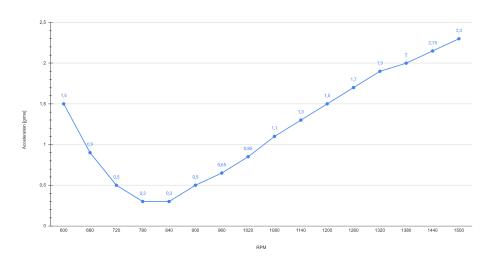
10-22Hz (600-1320RPM) @ ≥1.5gRMS.

Nominal rechargeable energy storage 1.32 Wh.

Vibration required for continuous operation:

Acceleration required for continuous operation

Rody sensor confinuration: Sampling rate 1kHz, duration: 3 seconds intervall: 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

<1 mW

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 (±3 dB point) Z-axis dc to 1.6kHz (±3 dB point)

Temperature sensor measurement accuracy:

Typ. ± 0.5 °C -40°C to 125°C Typ. ± 0.25 °C, 0°C to +65°C

Edge data storage:

Non persistent 64Mbit RAM.

Timesyncronization offset:

Typ. <5 us

Expected product lifetime:

>5 years

CONTACT

Revibe Energy AB
Falkenbergsgatan 3
412 85 Göteborg
Sweden
+46 (0) 31 24 23 22
www.revibeenergy.com