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RF EXPOSURE REPORT

Manufacturer: Precision Fermentation | DBA Sennos
302 East Pettigrew Street, Dibrell B100
Durham, North Carolina 27701 USA

Applicant: Same as Above

Product Name: M3 Sensor Stack

Product Description: Wireless in-tank sensor device used to collect, analyze, and transmit process data during fluid-based production operations.

Operating Voltage/Freq. of EUT During Testing: 120V/60 Hz

Model(s): M3 Sensor Stack SENSTK-M3-01

FCC ID: 2BOZ2SENSTK-M3-01

IC: 33887-SENSTKM301

Testing Commenced: 2026-07-17

Testing Ended: 2026-07-28

Test Results: In Compliance

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

Standards:

- KDB447498
- FCC 1.1310
- FCC 1.1307(b)(3)(i)(A)
- Safety Code 6
- RSS-102, Issue 6



Order No(s): F2P33561B, F2P33561B-C4

Applicant: Precision Fermentation | DBA Sennos
Model(s): SENSTK-M3-01

Evaluation Conducted by:

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Report Reviewed by:

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1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio.

Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

Site description and attenuation data are on file with the Certification and Engineering Bureau, Industry Canada, Site Number 4730B.

1.2 Measurement Procedure:

All measurements were performed according to:

- KDB558074
- FCC 15.249
- RSS-210

1.4 Document History

Document Number	Description	Issue Date	Approved By
F2P33561B-05E	First Issue	2026-08-24	K. Littell



2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device <5mm from Human	KDB447498 FCC 1.1310 FCC 1.1307(b)(3)(i)(A) Safety Code 6 RSS-102, Issue 6	Complies

Modifications Made to the Equipment
None



3 ENGINEERING STATEMENT

This report has been prepared on behalf of Precision Fermentation | DBA Sennos to provide documentation for the calculations described herein, based on the measurements taken in supporting Test Reports. This equipment has been tested, and calculations were found to comply with KDB447498, FCC 1.1310, FCC 1.1307(b)(3)(i)(A), Safety Code 6 and RSS-102 Issue 6. The test results found in this test report relate only to the item(s) tested.



4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: M3 Sensor Stack
Model(s): SENSTK-M3-01
Serial No.: M3.12-837
Firmware: v2.0
Hardware: Sennos M3
FCC ID: 2BOZ2SENSTK-M3-01
IC: 33887-SENSTKM301

4.2 Trade Name:

Precision Fermentation | DBA Sennos

4.3 Power Supply:

Anker A2013

4.4 Applicable Rules:

- KDB447498
- FCC 1.1310
- FCC 1.1307(b)(3)(i)(A)
- Safety Code 6
- RSS-102, Issue 6

4.5 Antenna:

Whip Antenna

4.6 Accessories:

Device	Manufacturer	Model Number	Serial Number
Laptop	Dell	Latitude 9430	None Specified
Accessory Software Version:		ESP RF Test Tool V3.6	

4.7 Test Item Condition:

The equipment to be tested was received in good condition.

**5. RF EXPOSURE FOR DEVICE <5mm FROM HUMAN****5.1 Requirements: Distance used is 5mm**

FCC	
Limit:	FCC 1.1307(b)(3)(i)(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance.
Formula Used for Result:	$P(dBm) = E(dBuVm) + 20\log(d) - G - 104.77$
Results:	802.11g BPSK/OFDM, 2412 MHz was the highest $88.2 + 9.542425 - 0 - 104.77 = -7.03dBm$ $P(dBm) = -7.03$ which is 0.198mW BLE GFSK (1M), 2402 MHz was the highest $88.9 + 9.542425 - 0 - 104.77 = -6.328dBm$ $P(dBm) = -6.328$ which is 0.233mW

IC	
Limit:	19mW per Table 11 in Section 6.3 of RSS-102 Issue 6
Formula Used for Result:	$P(dBm) = E(dBuVm) + 20\log(d) - G - 104.77$
Results:	802.11g BPSK/OFDM, 2412 MHz was the highest $88.2 + 9.542425 - 0 - 104.77 = -7.03dBm$ $P(dBm) = -7.03$ which is 0.198mW BLE GFSK (1M), 2402 MHz was the highest $88.9 + 9.542425 - 0 - 104.77 = -6.328dBm$ $P(dBm) = -6.328$ which is 0.233mW

**NOTE: Bluetooth and Wi-Fi cannot transmit at the same time.
Simultaneous transmission is not covered.**