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Federal Communications Commission
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

Heidelberg, 05 February 2026

RE: Precisis GmbH - RF Exposure EASEE® Communicator FCC ID 2BSNV-EACOM01

Models EASEE® Communicator and EASEE® Access

1. Statement of Compliance

This device has been evaluated for compliance with FCC RF exposure requirements in 47 CFR §2.1093, FCC KDB 447498 D01, and FCC KDB 865664 D02. Based on worst-case output power including tune-up, antenna gain, duty cycle where permitted, and the minimum test separation distance, the device meets the SAR test-exclusion thresholds of KDB 447498 D01 §4.3.1 and §4.3.2 for portable devices. No SAR measurement is required.

2. Evaluation Approach & References

Guidance: KDB 447498 D01 §4.3.1 and §4.3.2 (SAR test exclusion, 100 MHz–6 GHz) and KDB 865664 D02 (RF exposure reporting).

Simultaneous Transmit: Standalone terms are summed when radios can transmit simultaneously (per KDB 447498 D01 §4.3.2).

Minimum Separation: The physically guaranteed minimum spacing, including foreseeable misuse, is 4.5 mm; therefore $d = 5$ mm is used for the exemption screen (per KDB rule to use 5 mm when spacing < 5 mm).

3. Device Description and Operating Modes

The internal antennas are located within the enclosure such that the minimum physically guaranteed distance between the antenna and the patient's body is 4.5 mm. This spacing remains valid under all intended use conditions and foreseeable misuse (e.g., firm placement against the torso, no clothing). In accordance with KDB 447498 D01 §4.3.1, when the physical spacing is < 5 mm, a default 5 mm distance shall be applied. Therefore, the RF exposure evaluation uses $d = 5$ mm as the minimum test separation distance.

Wireless technologies:

- MICS band (402–405 MHz)
- 2.45 GHz ISM band (wake-up / telemetry)

Simultaneous operation of the two radios is possible during “search” mode of the device; simultaneous exposure is evaluated by summation per KDB 447498 D01.

4. Output Power and Antenna Data

4.1. MICS Transmitter (402–405 MHz)

Conducted output power (data sheet):	-16 dBm (≈ 0.025 mW)
Tune-up tolerance:	20%
Conducted power incl. tune-up:	$0.025 \text{ mW} \times 1.2 \approx 0.03 \text{ mW}$
Antenna gain:	-4 dBi (linear ≈ 0.40) ¹
Measured duty cycle:	100% ²
EIRP:	$0.03 \text{ mW} \times 0.40 \approx 0.012 \text{ mW}$
Value used for exemption:	P_{MICS,max} = 0.012 mW

4.2. 2.45 GHz Transmitter

Conducted output power (data sheet):	13 dBm (≈ 20 mW)
Tune-up tolerance:	20%
Conducted power incl. tune-up:	$20 \text{ mW} \times 1.2 = 24 \text{ mW}$
Antenna gain	+2.2 dBi (linear ≈ 1.66) ³
Measured duty cycle:	9.5% ⁴
Max EIRP:	$24 \text{ mW} \times 1.66 \approx 39.8 \text{ mW}$
Average power	$38.9 \text{ mW} \times 0.095 \approx 3.78 \text{ mW}$
Value used for exemption:	P_{2.45,avg} = 3.78 mW

4.3. Manufacturer Tune-Up Declaration MICS

The EASEE Communicator enforces a firmware limit to the radio frequency module for the MICS transmit output power. This limit is determined during calibration of each production unit and cannot be modified or increased by users. Under this restriction, the maximum conducted output power of the radio frequency module cannot exceed -16 dBm.

Following a conservative approach, a 20% tune-up tolerance is added. With an antenna gain of -4dBi, maximum EIRP is ≈ 0.012 mW.

The RF exposure evaluation in this exhibit uses the source-based, time-averaged maximum conducted output power for the MICS transmitter, including the applied tune-up tolerance, as required by FCC KDB 447498 D01 §4.3.1. Any change that increases the maximum transmit power would require re-evaluation of RF exposure compliance and may necessitate a Class II Permissive Change.

4.4. Manufacturer Tune-Up Declaration 2.45 GHz

The onboard CC2500 drives the onboard power amplifier (PA). The EASEE Communicator enforces a firmware limit at the CC2500 setting. This limit is fixed for production units and cannot be increased by users.

¹ Exhibit 17_Antenna_Datasheet_Johanson_0433AT62A0020E

² Eurofins report G0M-2509-3285-TFC95IMR02

³ Exhibit 17_Antenna_Datasheet_Johanson_2450AT45A100E

⁴ Eurofins report G0M-2509-3285-TFC249DT01

Under this restriction, the maximum conducted output power cannot exceed 13 dBm (≈ 20 mW). However, following a conservative approach, a 20% tune-up tolerance is added. With an antenna gain of +2.2 dBi, maximum EIRP is ≈ 38.9 mW.

The RF exposure evaluation in this exhibit uses source-based time-averaged maximum conducted output power including this tune-up limit, per KDB 447498 D01 §4.3.1. Any change that increases maximum transmit power would require re-evaluation and may require a Class II Permissive Change.

5. SAR Exemption Calculation (KDB 447498 D01 §4.3.1 and §4.3.2)

Equation for portable devices (100 MHz–6 GHz, $d \leq 50$ mm):

$$\frac{(\text{avg. power of channel, including tune – up tolerance, mW})}{d} \cdot \sqrt{f_{\text{GHz}}} \leq 3.0 \text{ (1-g) or } \leq 7.5 \text{ (10-g extremity)}$$

For simultaneous transmission, sum the terms for the two frequencies. Power and distance are rounded to nearest mW/mm; result rounded to one decimal place.

Minimum test separation distance: $d = 5$ mm (physically guaranteed, including foreseeable misuse).

5.1. Inputs

2.45 GHz:	$P_{\text{avg}} = 3.78$ mW; $f = 2.45$ GHz; $d = 5$ mm.
MICS:	$P^{\text{max}} = 0.012$ mW; $f \approx 0.405$ GHz; $d = 5$ mm.

5.2. Results at $d = 5$ mm

2.45 GHz term: $\frac{3.78}{5} \cdot \sqrt{2.450} \approx 0.756 \times 1.565 \approx 1.18$

MICS term: $\frac{0.012}{5} \times \sqrt{0.405} \approx 0.0024 \times 0.636 \approx 0.002$

Simultaneous sum: $1.18 + 0.002 = 1.182 \approx 1.2$

Thresholds: 3.0 (1-g), 7.5 (10-g extremity).

Conclusion: PASS for both individually and combination.

6. Reporting and Documentation (KDB 865664 D02)

This exhibit includes the information required by KDB 865664 D02: device description, maximum output powers with tune-up, antenna data, duty factors, minimum test separation distance justification, calculation method and results, and a statement of compliance.

7. Conclusion

Using the firmware-limited maximum power, antenna gain, the measured duty cycle, and a physically guaranteed minimum test separation distance, the EASEE Communicator meets the SAR test-exclusion thresholds of KDB 447498 D01. No SAR measurement is required for FCC equipment authorization.

Approval

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