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## **SAR EXEMPTION REPORT**

**Manufacturer:** Total Product Solutions BV  
Industrieweg 4731 SB Oudenbosch NL zone 14

**Applicant:** Zehnder America  
6 Merrill Industrial Drive, Suite 7  
Hampton, New Hampshire 03842 USA

**Product Name:** TMR-SNS-925MHz-CO2

**Product Description:** Timer for ventilation unit

**Model:** RF Timer

**FCC ID:** 2A8X810019108

**Standard(s):**

- KDB447498 D04 Interim General RF Exposure Guidance v01
- FCC Rule Part 1.1307(b)(3)(i)(a)

**Report Constructed by:**

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**Report Reviewed by:**

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## TABLE OF CONTENTS

1	<a href="#"><u>ADMINISTRATIVE INFORMATION</u></a>
2	<a href="#"><u>SUMMARY OF TEST RESULTS/MODIFICATIONS</u></a>
3	<a href="#"><u>ENGINEERING STATEMENT</u></a>
4	<a href="#"><u>EUT INFORMATION AND DATA</u></a>



## 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.

### 1.2 Document History

Document Number	Description	Issue Date	Approved By
F2P27922-02E	First Issue	2023-03-24	K. Littell



## 2 SUMMARY OF RESULTS

	Standard(s)	Results
SAR Exemption	- KDB447498 D04 Interim General RF Exposure Guidance v01 - FCC Rule Part 1.1307(b)(3)(i)(a)	Complies

Modifications Made to the Equipment
None



### 3 ENGINEERING STATEMENT

This report has been prepared on behalf of Zehnder America, to provide documentation for the SAR Exemption herein. This equipment has been tested and found to comply with the SAR Exemption levels listed in FCC Rule Part 1.1307(b)(3)(i)(a).

*(3) Determination of exemption.*

*(i) For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:*

*(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);”*

The minimum distance from the antenna used inside of the TMR-SNS-925MHz-CO2 Timer, is 5mm. The maximum Field Strength of the transmitter was 86.1 dB $\mu$ V/m at 3m which equals 0.612 mW, which is well below the exemption limit of 1mW.

$$P(\text{dBm}) = E(\text{dB}\mu\text{V}/\text{m}) + 20\text{LOG}(d) - G - 104.77$$
$$86.1 + 9.542425 + 7 - 104.77 = -2.13$$

$$P(\text{dBm}) = -2.13 \text{ which is } 0.612\text{mW}$$



Order Number: F2P27922

Applicant: Zehnder America

Model: RF Timer

#### 4 EUT INFORMATION AND DATA

##### 4.1 Equipment Under Test:

Product: **TMR-SNS-925MHz-CO2**

Model: **RF Timer**

Serial No.: 121A22510001

Firmware: RF\_Timer\_FCC\_US\_v0.03.hex

Hardware: V1.1

FCC ID: 2A8X810019108

##### 4.2 Trade Name:

Zehnder America

##### 4.3 Power Supply:

Battery-Operated

##### 4.4 Applicable Rules:

KDB447498

##### 4.5 Antenna:

Dipole PCB -7.0dBi Peak Gain

##### 4.6 Accessories:

Device	Manufacturer	Model Number	Serial Number
Battery	Panasonic	CR2032	346F17303