

RF Exposure Report

Project Number: 5088048**Offer Number:** SUW-202306004868**Report Number:** 5088048EMC03**Revision Level:** 0**Client:** Nederman Corporation**Equipment Under Test:** Ventilation Monitoring System**Product Name:** SAVE System**Model:** SAVE**FCC ID:** 2BCBB-7945167**Applicable Standards:** 47 CFR §§ 2.1091

FCC KDB 447498 D01 General RF Exposure Guidance v06

FCC OET Bulletin 65

Report issued on: 30 November 2023**Result:** Compliant

FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

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1 General Information

1.1 Client Information

Company Name: Nederman Corporation
Address: 4404-A Chesapeake Drive
City, State, Zip, Country: Charlotte, NC 28216, USA

1.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

1.3 General Information of EUT

Equipment Under Test: Ventilation Monitoring System

Product Name: SAVE System

Model: SAVE

Serial Numbers: Not Provided

Frequency Ranges: 903 - 927 MHz (2GFSK)

Data Modes: 2GFSK

Antennas: Linear External Dipole, + 3.22 dBi

Max Conducted Output Power: 2GFSK: 8.16 dBm

**Data was not measured by SGS laboratory and therefore SGS is not responsible for accuracy. Data obtained via customer, specification sheet, previous regulatory filing or other.*

1.4 Operating Modes and Conditions

5mW power level setting was utilized for calculations.

2 RF Exposure

2.1 Test Results

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 Test Method

The formula below calculates power density.

$$S = \frac{PG}{4\pi R^2} \quad S = \frac{EIRP}{4\pi R^2}$$

Or

where;

S = Power density (mW/cm²)

P = Maximum sourced based average power delivered to antenna port (mW)

G = Maximum numeric power gain of antenna relative to an isotropic radiator (dBi -> linear)

R = Distance between by-stander and antenna (cm)

EIRP = Equivalent (or effective) isotropically radiated power

The limits for general population / uncontrolled exposure were used at a distance of 20cm.

2.3 Single transmission RF Exposure Levels (mW/cm²)

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density EIRP _{Avg} /(4πR ²) mW/cm ²	FCC mW/cm ²	% of Limit	Verdict
Type	MHz	dBm			dBm	mW					
2GFSK	902-928	8.2	3.2	0.0	11.4	14	20	0.003	1.00	0%	Pass

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial Release	30 November 2023