

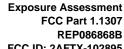


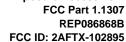
RF Exposure Assessment

Product Wireless temperature and humidity sensor Name and address of the Disruptive technologies Research AS applicant Strandveien 17 1366 Lysaker, Norway Name and address of the Disruptive technologies Research AS manufacturer Strandveien 17 1366 Lysaker, Norway Model 102895 Rating 3.0 V DC (Primary Battery, BR1632A Lithium Cell) **Trademark** Disruptive **Additional information** None Evaluated according to FCC Part 1.1310(e) RF Exposure Assessment FCC KDB 447498 D01 v06 General RF Exposure Guidance Order number PRJ0065558 Issue date 2025-03-19 Name and address of the testing laboratory Nèmko CAB Number: Nemko Scandinavia AS FCC: NO0001 Instituttveien 6 ISED: NO0470 2007 Kjeller, Norway ISED No: 2040D-1 www.nemko.com An accredited technical test executed under the Norwegian accreditation scheme Prepared by [Frode Sveinsen]

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Template version: B







Revision history

Revision	Date	Comment	Sign
Α	2025-03-11	First Edition	FS
В	2025-03-19	Changed to Fixed Device	FS

GENERAL REMARKS

This report applies only to the sample(s) tested. It is the manufacturer's responsibility to ensure the additional production units of this product are manufactured with identical electrical and mechanical components. The manufacturer is solely responsible for any modifications to the product that could result in non-compliance with the relevant regulations.

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Exposure Evaluation

1.1 **EUT Technical Information**

Product	Wireless temperature and humidity sensor
Manufacturer	Disruptive Technologies Research AS
Model	102895
FCC ID	2AFTX-102895
ISED ID	25087-102895
Serial number	HUMIDITY_US1 HUMIDITY_US2
Hardware version	0.5
Software version	1.8.1
Frequency Range	903.250 – 926.750 MHz
Operating Modes	Frequency Hopping
Type of Power Supply	Primary Battery (BR1632A Lithium Cell)
Antenna Type	Integral Antenna
Number of Antennas	1
Device Category	Fixed Device
Reference to RF Test Report	Nemko REP078715
Prediction Distance (declared)	20 cm

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Exposure Assessment FCC Part 1.1307 REP086868B

FCC ID: 2AFTX-102895

1.2 **Evaluation Summary**

Maximum whole body power density is calculated using formula 3) from OET Bulletin 65 Edition 97-01 (page 19):

Where:

 $S = power \ density \\ P = power \ input \ to \ the \ antenna \\ G = power \ gain \ of \ the \ antenna \ in \ the \ direction \ of \ interest \ relative \ to \ an \ isotropic \ radiator \\ R = \ distance \ to \ the \ center \ of \ radiation \ of \ the \ antenna$

Determination of Exemption for Single RF Sources					
Determination of Exemption for Single Ni Sources					
Conducted Power including Tune Up Tolerance	12.5	dBm			
Antenna Gain	-5.4	dBi			
Separation Distance	20	cm			
Frequency Range Evaluated	903-927	MHz			
Duty Cycle	100	%			
Calculated Power Density	0.035	W/m²			
Power density Limit ref. FCC §1.1310(e), Table 1	6.02	W/m²			
Margin on Compliance	22.31	dB			
CONCLUSION	EXEMPTED				

Antenna Gain is maximum measured antenna gain. Power Density value is based on conducted power only.

References

1) OET Bulletin 65 Edition 97-01, August 1997

2) KDB 447498 D01 General RF Exposure Guidance v06, October 23, 2015

Code of Federal Regulations, Title 47, FCC §1.1310

Code of Federal Regulations, Title 47, FCC Part 15, Subpart E

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