

RF EXPOSURE REPORT



Applicant: Product Name:	GIGA-TMS INC. 9F-2, No.31, Lane 169, Kang-Ning St.,Hsi-Chih, New Taipei City 22180,Taiwan Time Recorder
Brand Name:	PROMAG,GIGATEK,ProxData
Model No.:	TR515A
Model Difference:	N/A
Report Number:	E2/2021/90013
FCC ID:	WXATR515AR
Issue Date:	October 15, 2021
Date of EUT Received:	August 17, 2021

eh

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091 and RSS-102.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History					
Report Number Revision		Description	Issue Date	Revised By	
E2/2021/90013	00	Original	October 15, 2021	Ariel Chang	

Note:

1 · Disclaimer

Antenna information provided by the applicant, the test results of this report are applicable to the sample EUT received.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 **Product Description**

Product Name	Time Recorder	
Brand Name	PROMAG,GIGATEK,ProxData	
Model No.	TR515A	
Model Difference	N/A	
Power Supply	5Vdc to 12Vdc (Typical: 9Vdc)	

1.2 Antenna Designation

Antenna	Supplier	Antenna	Freq.
Type		Part No.	(MHz)
COIL Antenna	N/A	N/A	13.56

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2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	agnetic Field Power Density		
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(minute)	
Limits for General Population/Uncontrolled Exposure					
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/f	/f 2.19/f *(180/f ²)		30	
30-300	27.5	27.5 0.073 0.2		30	
300-1500	/ / f/1500		f/1500	30	
1500-100000	00000 / /		1.0	30	

f = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance S=PG/4 π R²

Where: S = Power density

- P = Power input to 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

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2.2 **Power Density Calculation**

Operation	Frequency	distance	EIRP	PD	Limit
mode	(MHz)	(cm)	(mW)	(mW/cm^2)	(mW/cm^2)
NFC	13.56	20	0.009961	0.000001983	0.9789

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