

STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

EQUIPMENT

Type of equipment:	Automat for the return of Wristbands
Brand name:	GANTNER
Type / Model:	GRT7.2300
Identical types:	GRT7.2300 EE, GRT7.2310
Manufacturer:	GANTNER Electronic GmbH
By request of:	GANTNER Electronic GmbH

STANDARD REFERENCES:

US:

FCC 47 CFR §1.1307 Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared

FCC 47 CFR §2.1091 Radiofrequency radiation exposure evaluation: mobile devices

FCC 47 CFR §1.1310 Radiofrequency radiation exposure limits

FCC KDB 447498 D01 v06 What are the RF exposure requirements and procedures for mobile and portable devices?

Canada:

RSS-102, Issue 6 Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

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Source of power value

Maximum input power to the transmitter is mW. We can assume that the transmitter is ideal and all mW are sent to the antenna. Magnetic coil antenna gain has maximum 0 dBi gain.

Maximum output power of the transmitter is 500 mW (according to form 731). Magnetic coil antenna gain has maximum 0 dBi gain.

Maximum output power of the transmitter with antenna gain is less than mW (dBm taken from radio test report 22 KAU-00)

Calculation

A worst case **MPE (maximum permissible exposure)** calculation is as follows:

$$S = \frac{EIRP}{4 * \pi * r^2}$$
 with EIRP = 500 mW; r = 20 cm

$$S = 0.1 \text{ mW} / \text{cm}^2$$

Limit and result

FCC:

Per 47 CFR §1.1310 Radiofrequency radiation exposure limits (e) (1) the power density limit for a transmitter in the 13.56 MHz range is **1 mW / cm**².

Verdict:

As the calculated MPE $S = 0.1 \text{ mW} / \text{cm}^2$ is less than $1 \text{ mW} / \text{cm}^2$, the limit is kept.

RSS-102, Issue 6:

RSS 102 clause 2.5.2 Routine rf exposure evaluation exemption limit for transmitters operating at 20 MHz or lower frequencies is **1 W** eirp.

Verdict:

As the power value **500 mW** is less than **1 W**, the limit is kept.

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