

STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

EQUIPMENT

Type of equipment:	Battery Powered RFID Lock
Brand name:	GANTNER
Type / Model:	GAT ECO.Lock 7101 F/ISO
Identical type:	GAT ECO.Lock 7151 F/ISO
Manufacturer:	GANTNER Electronic GmbH
By request of:	GANTNER Electronic GmbH

STANDARD

47 CFR §2.1091, 47 CFR §1.1307, 47 CFR §1.1310, KDB 447498 D01 v06
RSS-102 Issue 5

Evaluation

- 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 RFID transmitter is 500 mW (according to form 731). Magnetic coil antenna gain has maximum 0 dBi gain.

A worst case MPE calculation is as follows:

$$S = \frac{EIRP}{\pi * r^2}$$

EIRP = 500 mW

r = 20 cm


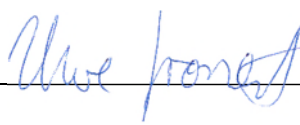
S = 0,398 mW / cm²


Limits

Per 47 CFR §1.1310 MPE limit for 13.56 MHz transmitter is 0,98 mW / cm²

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

Transmitter complies with these limits without testing.

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