

# STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

## EQUIPMENT

Type of equipment:	Sub Control unit for electronic locker locks
Brand name:	Gantner
Type / Model:	GAT NET.Controller S 7020 F/ISO NU
Manufacturer:	Gantner Electronic GmbH

## STANDARD

47 CFR §2.1091, 47 CFR §1.1307, 47 CFR §1.1310 KDB 447498 D01 v06

## 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  $\leq 500$  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 / cm<sup>2</sup>

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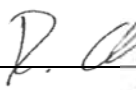

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## Limits

Per 47 CFR §1.1310 MPE limit for 13.56 MHz transmitter is 0,98 mW / cm<sup>2</sup>

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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Signature:		Signature:	
Date:	2022-08-26	Date:	2022-08-26



The stamp is circular with the text 'Intertek Deutschland GmbH' around the top edge and 'Innovapark 20, D-87600 Kaufbeuren, Germany' around the bottom edge. In the center, it says 'intertek Deutschland'.

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