STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

EQUIPMENT

Type of equipment:	Access reader
Brand name:	Gantner
Type / Model:	GAT SLR 7310
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 less than 500 mW, because according to form 731 the maximum input power is ≤ 500 mW. Magnetic coil antenna gain has maximum 0 dBi gain. Therefore the maximum output power can never be higher than the maximum input power.

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^2

Limits

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

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

Transmitter complies with these limits without testing

Intertek Deutschland GmbH

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