STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

EQUIPMENT

Type of equipment:	RFID Reader (13.56 MHz) with Bluetooth 2.4 GHz
Brand name:	GANTNER
Type / Model:	GAT ECO.Side Lock 7010 NW 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

Evaluation

FCC ID: QWO-QS9322PLCS
IC: 4460A-QS9322PLCS

☒ Maximum output power of the transmitter is 2.0 mW.
According to the test report of this Bluetooth module the antenna gain is 2.21 dBi.
This results in a maximum output of 3.33 mW

☒ Maximum output power of the transmitter is 200 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 = 200 mW (RFID) + 3.33 mW (Bluetooth)
r = 20 cm

S = 0,162 mW / cm^2

Limits

Per 47 CFR §1.1310 MPE limit for 13.56 MHz transmitter is 0,98 mW / cm^2 , and 1 mW / cm^2 in the 2.4 GHz range.

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, and 2.74 W eirp at 2480 MHz.

Transmitter complies with these limits without testing

Intertek Deutschland GmbH

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