

# 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<sup>2</sup>

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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>, and 1 mW / cm<sup>2</sup> 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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