

# STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

## EQUIPMENT

Type of equipment: 906-924 MHz Transceiver Modul  
Type / Model: Loxone Air Transceiver- Modul  
Manufacturer: Loxone Electronics GmbH  
By request of: Loxone Electronics 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 transmitter is 10 mW (according to form 731).  
The antenna gain is 4 dBi .

A worst case MPE calculation is as follows:

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

EIRP = 25.12 mW

r = 20 cm

S = 0,02 mW / cm<sup>2</sup>

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**Limits**

Per 47 CFR §1.1310 MPE limit for 906 MHz transmitter is 0,604 mW / cm<sup>2</sup>

RSS 102 clause 2.5.2 Routine rf exposure evaluation exemption limit for transmitters operating at 906 MHz is 1.374 W eirp.

Transmitter complies with these limits without testing.

Intertek Deutschland GmbH

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