STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

EQUIPMENT

Type of equipment:	906-924 MHz Transceiver Modul with µ-Controller
Type / Model:	Loxone Air CPU- 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^2

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Limits

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

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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