

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

RSS-102, Issue 5

Evaluation

☒ Maximum output power conducted of the transmitter is 9.2 dBm (Test report: 2233222KAU-001).
The antenna gain is 2 dBi .

EIRP = 13.2 mW

Limits

RSS-102, Issue 5, 2.5.1 (closest frequency 835 MHz, separation distance ≤ 5 mm).

Exemption limit: 17 mW

Transmitter complies with this limit.

Intertek Deutschland GmbH

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Issued by: R. Dressler



Further SAR exemption info of the manufacturer:

LOXONE

This device FCC ID: 2ARRV-000375 is excluded from SAR testing by the following justification:

The maximum power that the transmitter is capable of is: 13.18 mW (Duty Cycle not applied)

Using the following formula from section 4.3.1 of KDB 447498 at test separation distances ≤ 50 mm
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] *
[$\sqrt{f(\text{GHz})}$]

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

$$(\text{round_to_mW}(13.18 \text{ mW}) / 5 \text{ mm}) * \sqrt{0.906 \text{ GHz}} = 2.5$$

According the to section 4.3.1 of KDB 447498 the result shall be ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.