

Maximum Permissive Exposure short report

For Continental Advanced Antenna GmbH, RKE-Transceiver RKE232E1 with HW version 13620027B02V02 and FW version V11.31 with FCC ID 2ACC7RKE232E1.

Declared minimum distance to human body according to customer > 20 cm according external document "MPE Information Requirements_RKE232E1_RKE232J1.pdf" provided by customer. The customer thus declares that the device is not body-worn. For FCC using the equation from page 19 of OET Bulletin 65, Edition 97-01 from FCC 2.1091:

$$S = \frac{PG}{4\pi R^2}$$

Limits according FCC Part 1.1310

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

Calculations based on external document "MPE Information Requirements_RKE232E1_RKE232J1.pdf".

Operation Mode	Frequency on channel (MHz)	Declared maximum conducted output power (dBm)	Antenna Gain Max. (dBi)	Losses	Declared maximum output power (Measured+ Tune-up) (dBm)	Duty cycle	Declared Maximum conducted output power (W)	Equivalent conducted output power (maximum conducted output power x duty cycle) (mW)
ISM 433 MHz	433.39	7.70	2.00	0.30	9.40	100%	0.0087	8.7096
	433.37	7.70	2.00		9.40		0.0087	8.7096
	434.00	7.70	2.00		9.40		0.0087	8.7096

Maximum calculated MPE value:		
MPE-Limit:	0.2889	[mW/cm ²]
Highest MPE value:	0.0035	[mW/cm ²]
Margin to limit	0.2854	[mW/cm ²]

Conclusion: Calculated results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.