

FCC SAR exemption letter according KDB 447498 D01 v06

For AEV spol. s.r.o. , wireless Seat Belt Reminder - seat unit with HW version 036 and SW version 159.

Declared minimum distance to human body according to customer = 5 mm according to external document “MPE Information Requirements_Sensor_20200805.pdf” provided by customer.

According to KDB 447498 D01 General RF Exposure Guidance V06 SAR testing can be exempted if the following exclusion threshold are met:

Appendix A
SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

MHz	30	35	40	45	50	mm
150	232	271	310	349	387	SAR Test Exclusion Threshold (mW)
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

Note: 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

$P_{\text{threshold}}$ calculation based on external document “MPE Information Requirements_Sensor_20200805.pdf” provided by customer.

$P_{\text{threshold}} = \text{Maximum Rated Conducted Output Power (dBm)} + \text{Tune-Up Tolerance} - \text{Maximum Path Loss to Antenna}$

$P_{\text{threshold_DUT}} = 1 \text{ mW} * 10^{((-11.2 \text{ dBm} + 1.4 \text{ dB})/10)} = 0.1047 \text{ mW} < 10 \text{ mW @ 2450 MHz with 5 mm test separation.}$

The user manual must list the given usage position.

The current version of the FCC SAR exemption letter **CETECOM_TR19_1_0055001T17a_C1** replaces the FCC SAR exemption letter **CETECOM_TR19_1_0055001T17a** dated 2020-08-03. The replaced FCC SAR exemption letter is herewith invalid.