

Client	Senstar Corporation	
Product	Wireless Gate Sensor Module	
Standard(s)	FCC KDB 447498, RSS-102	

Maximum Permissible Exposure.

This device has a peak conducted power output of 17 mW (12.3 dBm) with a measured field strength of 106.8 dBuV/m, which is an EIRP of 11.6 dBm. This equates to a peak Antenna gain of -0.7 dBi.

This device is designed for use at distances much larger than 20 cm, however for the purpose of demonstrating compliance with MPE requirements and SAR exemption; we present a worst case distance of 25 mm.

As per RSS-102, Section 2.5.1, the limit for 1900 MHz (worst case applied to frequency of 915 MHz) at 25 mm or greater is 60 mW. This device is under limit for 25 mm.

As per FCC KDB 447498 D01, 4.3.1a, the equation is
(max power of channel, including tune - up tolerance, mW) / (min. test separation distance, mm) ·
 $[\sqrt{f \text{ (GHz)}}] \leq 3.0$

Therefore:

$$(17 \text{ mW} / 25 \text{ mm}) \times (0.915)^{0.5} \leq 3.0$$

$$= 0.68 \times 0.95$$

= 0.646 which is less than 3.0, therefore this device therefore complies with FCC requirements at 25 mm or greater.