



Client	Senstar Corporation	
Product	Wireless Gate Sensor Receiver	
Standard(s)	RSS 247 Issue:1 / FCC Part 15 Subpart C 15	

Test Results Summary

Standard/Method	Description	Class/Limit	Result
FCC 15.203	Antenna Requirement	Unique	Pass See Justification
FCC 15.205 RSS 247 (Table 1)	Restricted Bands for intentional operation	None	Pass
FCC 15.207	Power line conducted emissions	QuasiPeak Average	Pass See Justifications
FCC 15.209 RSS-247 5.5	Spurious Radiated emissions	QuasiPeak Average	Pass
FCC 15.247(a)2 RSS-247 5.2.1	6 dB Bandwidth	> 500 kHz	Pass
FCC 15.247(b)2 RSS-247 5.4	Max output power	< 1 Watt	Pass
FCC 15.247(b)(4) RSS-247 5.4.4	Antenna Gain	< 6 dBi	Pass See Justifications
FCC 15.247(d) RSS-247 5.5	Antenna conducted spurious	< 20 dBc	Pass
FCC 15.247(e) RSS-247 5.2.2	Spectral Density	< 8 dBm (3 kHz BW)	Pass
FCC 15.247(i) IC Safety code 6	Maximum Permissible Exposure	> 20 cm separation.	Pass See justification and calculations
Overall Result			PASS

If the product as tested or otherwise complies with the specification, the EUT is deemed to comply with the requirement and is deemed a 'PASS' grade. If not 'FAIL' grade will be issued. Note that 'PASS' / 'FAIL' grade is independent of any measurement uncertainties. A 'PASS' / 'FAIL' grade within measurement uncertainty is marked with a '*'.

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Justifications, Descriptions, or Deviations

The following justifications for tests not performed or deviations from the above listed specifications apply:

For the Antenna requirement specified in FCC 15.203 , this device has external antenna(s) connected with a U.fl connector type.

For the Restricted Bands of operation, the EUT is designed to only operate between 915.4 to 920.5 MHz.

For the power line conducted emissions requirements, the EUT is DC powered, with no provisions to connect to the mains and this test does not apply.

For the scope of this testing the EUT was pre-scanned in three orthogonal axis to maximize emissions. Maximum emissions were found in the vertical EUT polarization. This setup was used for all testing in this report. Additionally, normally the EUT would be operated in this orientation.

For the Antenna gain, this device is designed to use an antenna with a **rated gain of 1.6 dBi**, however marginally more gain was observed by comparing the conducted emissions with the radiated emissions, but within measurement uncertainty and significantly less than 6 dBi.

The EUT was tested in both transmit and standby (receive) mode. No difference in emissions below 900 MHz were observed, and the worst case (transmit) mode is presented as representative for both modes.

For maximum permissible exposure, as per 447498 D01 General RF Exposure Guidance v05r02, section 4.3.1 this device operates at less than 25 mW (20.9 mW) at 915 MHz and is designed to operate at or greater than 20 cm or more from personnel during normal operation. No testing is required.