

RF Exposure Calculations:

The following information provides the minimum separation distance for each of the antennas provided with the **COMPACTRF-900** module, as calculated from **FCC OET 65 Appendix B, Table 1B** Guidelines for General Population/Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain. The formula used was:

$$S = (P_o * G) / (4 * \pi * r^2)$$

Where $S = 0.62 \text{ mW/cm}^2$ for 928 MHz (from F/1500)

Where $P_o = 100 \text{ mW}$ for Yagi antennas (max. power set at factory)

Where $P_o = 1.0 \text{ Watt}$ for Omni antennas (max. power user configurable)

For: 14 dB Yagi Antenna $r = 18 \text{ cm}$

2.5dB Omni Antenna $r = 15 \text{ cm}$

6 dB Omni Antenna $r = 23 \text{ cm}$

The following statement will be presented in the **COMPACTRF-900** User Manual:

WARNING

In order to comply with the FCC/IC adopted RF exposure requirements, this transmitter system will be installed by the manufacturer's resaler professional. Installation of all antennas must be performed in a manner that will provide at least 23 cm clearance from the front radiating apperature, to any user or member of the public.

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