



RF Exposure



Separation distances
required for FCC RF
Exposure compliance

Antenna Installation Warnings

1. All antenna installation and servicing is to be performed by **qualified technical personnel** only. When servicing the antenna, or working at distances closer than those listed below, *ensure the transmitter has been disabled*.
2. Depending upon the application and the gain of the antenna, the total composite power could exceed 90 watts EIRP. For fixed/mobile configuration, the distances in the table below must be followed.

Antenna Gain vs. Minimum Safety Distance
(Based on a 100% Duty Cycle, 0 dB Feedline Loss)

	Fixed/Mobile Antenna Gain		
	0–5 dBi	5–10 dBi	10–16.5 dBi
Minimum RF Safety Distance	0.58 meter	1.04 meters	2.19 meters

Portable OCU Applications

For portable applications *only*, a directly-connected antenna is allowed. **This antenna must have a 0 dBi gain, and must operate with a separation distance of at least 5 cm from all persons.**

The Operator Control Unit (OCU) application uses a source-based, time-averaging duty factor not exceeding 4.26%, and the maximum time-averaged power output is 85 milliwatts or less. Reference FCC rules 2.1093 for portable applications.

Enclosure Marking Requirements—FCC ID Label

When the ROR 220 module is to be used in portable/fixed/mobile applications, the outside of the OEM enclosure must be clearly marked with a durable label stating “**Contains E5MDS-ROR220**”.

ISO 9001 Registration

Microwave Data Systems adheres to this internationally accepted quality system standard.