

- Install one RF lightning protector between the radio and antenna in series with the RF cable.
- A lightning arrestor in series with the RF cable at the point of entry to the building.
- Install a lightning arrestor in series with the IF cable at the transceiver on the tower/mast.
- The AC wall outlet ground for the MacroMAX terminal must be connected to the same grounding system as the radio and antenna lightning protectors.

1.6 FCC RF Exposure

FCC Maximum Permissible Exposure (MPE) limits for equipment operating in the frequency range 1500 – 100,000 MHz is 1.0 mW/cm².

Following installation and commissioning, the safe distance from the antenna is the greater of:

20cm

Or

r cm, where $r = \sqrt{(PG/4\pi S)}$

P: power input to antenna in mW = 166mW

G: numeric gain of antenna relative to isotropic radiator

S: power density in mW/cm² = 1 mW/cm²

Therefore, safe distance from the antenna shall be the greater of

20 cm or $\sqrt{(13.21 * G)}$ cm.