FCC Maximum Permissible Exposure (MPE) limits for equipment operating in the frequency range $1500-100,000\,\text{MHz}$ is $1.0\,\text{mW/cm}2$.

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

20cm

Or

r cm, where $r = V (PG/4\pi S)$

P: power input to antenna(s) in mW

G: numeric gain of antenna relative to isotropic radiator

S: power density in mW/cm2 = 1 mW/cm2

The safe distance from the antenna shall be the greater of:

20 cm or $\sqrt{(PG/4\pi S)}$

Sensor

P*G = 0.80 dBm or 1.2 mW EIRPV (PG/4 π S) = 0.309 cm

Safe distance is 20 cm

Gateway

P*G = 12.67 dBm or 18.5 mW EIRP $V (PG/4\pi S) = 1.21 \text{ cm}$

Safe distance is 20 cm