RF Exposure information

The control unit is classified as a mobile device. The control unit includes transmitters operating according to FCC part 15 subpart C section 15.231 and section 15.247 (DTS).

The standard section 15.231 does not contain RF Exposure limits.
The FCC power density limit for general population/uncontrolled exposure is 1 mW/cm^2 for 2.4 GHz.

The power density **$P\ (mW/cm^2) = P_T / 4\pi r^2$**

P_T is the transmitted power, which is equal to the peak transmitter output power -11.99 dBm plus maximum antenna gain 4.5 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = -11.99\ dBm + 4.5\ dBi = -7.49\ dBm = 0.18\ mW.$$

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

$$0.18\ mW / 4\pi\ (20\ cm)^2 = 3.6 \times 10^{-5}\ mW/cm^2 << 1\ mW/cm^2$$

General public cannot be exposed to dangerous RF level.