RF Exposure information

The control panel transmitter operates according to FCC part 15 subpart C section 15.231(a) and RSS-210 Annex 1. The standards do not contain RF Exposure limits.
The panel includes a single modular approved transmitter FCC ID:RI7HE910NA, IC:5131A- HE910NA.

The power density **$P\ (mW/cm^2) = P_T / 4\pi r^2$**
Maximum conducted output power given in FCC ID:RI7HE910NA module grant is 1648 mW (32.17 dBm) in 824.2-848.8 band. Limit for power density is f/1500 = 0.56 mW/cm^2 for 824-849 MHz for general population/uncontrolled exposure.

The gain of antenna used with the module in the control panel is 1 dBi.

The maximum equivalent isotropically radiated power EIRP is

$$P_T = 32.17\ dBm + 1\ dBi = 33.17\ dBm = 2075\ mW$$

The power density at 20 cm is calculated as follows:

$$2075\ mW / 4\pi\ (20\ cm)^2 = 0.41\ mW/cm^2 < 0.56\ mW/cm^2$$

General public cannot be exposed to dangerous RF level.