FCC ID: KDYPMD75M



Environmental evaluation and exposure limit according to FCC CFR 47part 1, §1.1307, §1.1310

The Wireless PIR Detector, model PMD75M are classified as a mobile device. The Wireless PIR Detector includes transmitter operating according to FCC part 15 subpart C section 15.247 (FHSS)

The FCC limit for power density for general population/uncontrolled exposure is $f/1500 \text{ mW/cm}^2$ for 300 - 1500 MHz frequency range:

 $P = 902.25/1500 = 0.6 \text{ mW/cm}^2$

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 19.35 dBm plus maximum antenna gain 0 dBi, the maximum equivalent isotropically radiated power EIRP is

 $P_T = 19.35 \text{ dBm} + 0 \text{ dBi} = 19.35 \text{ dBm} = 86.09 \text{ mW}.$

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

Compliance with FCC limit: $86.09 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.017 \text{ mW/cm}^2 << 0.6 \text{ mW/cm}^2$

General public cannot be exposed to dangerous RF level.

Mrs. S. Peysahov Sheynin, certification specialist, EMC & Radio



EXPERTS IN GLOBAL COMPLIANCE SOLUTIONS











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