Exposure limit according to §15.247(i)

The vibration sensor is classified as a mobile device.

The FCC limit for power density 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 7.9 dBm plus maximum antenna gain 1 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 7.9\ dBm + 1\ dBi = 8.9\ dBm = 7.8\ mW.$$

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

$$7.8\ mW / 4\pi\ (20\ cm)^2 = 0.0016\ mW/cm^2 << 1\ mW/cm^2$$

General public cannot be exposed to dangerous RF level.