

FCC ID: 2A7AA-SON2ENCODR**RF Exposure information**

The Digital water meter is classified as mobile.

Limit for power density for general population/uncontrolled exposure is 1 mW/cm² for 1500 -100000 MHz frequency range.

The FCC power density limit for general population/uncontrolled exposure is 1 mW/cm² for 2.4 GHz for BLE transmitter.

The power density **P (mW/cm²) = $P_T / 4\pi r^2$**

BLE transmitter

P_T is the transmitted power, which is equal to the peak transmitter output power 3.82 dBm plus maximum antenna gain 2.5 dBi, the maximum equivalent isotopically radiated power EIRP is

$$P_T = 3.82 \text{ dBm} + 2.5 \text{ dBi} = 6.32 \text{ dBm} = 4.28 \text{ mW}.$$

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

$$4.28 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.008 \text{ mW/cm}^2 \ll 1 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.