Arad Technologies Ltd.

FCC ID:VIDLR9INTR

Exposure limit according to §15.247(i)

The water meter is classified as a mobile device.

The FCC limit for power density for general population/uncontrolled exposure is f/1500 mW/cm² for 300 – 1500 MHz frequency range:

 $P = 902.3/1500 = 0.601 \text{ mW/cm}^2$

The power density **P (mW/cm²) = P_T / 4** π r²

P_T is the transmitted power, which is equal to the peak transmitter output power 20.28 dBm (in hybrid mode) plus maximum antenna gain 0 dBi, the maximum equivalent isotropically radiated power EIRP is

 $P_{T} = 20.28 \text{ dBm} + 0 \text{ dBi} = 20.28 \text{ dBm} = 107 \text{ mW}.$

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

 $107 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.02 \text{ mW/cm}^2 << 0.601 \text{ mW/cm}^2$

General public cannot be exposed to dangerous RF level.