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


The 250FH water meter is classified as mobile.

Limit for power density for general population/uncontrolled exposure is  $P = 0.6$ mW/cm$^2$

The power density  $\mathbf{P\ (mW/cm^2)\ =\ PT\ /\ 4\pi\ r^2}$, where

PT - the transmitted power, which is equal to the transmitter output plus antenna gain.


$$PT = 18.15 + 2.5 = 20.65.66 \text{ dBm} = 116 \text{ mW}$$

The minimum safe distance "r", where RF exposure does not exceed FCC permissible limit, is 3.9 cm.

$$r = \text{sqrt} ( PT / (Px4\pi)) = \text{sqrt} [116 / (0.6 \text{ x } 12.56)] = 3.9$$


The device is installed in such a way that minimum separation distance of at least 20 cm from all persons is normally provided (refer to User Manual), hence, no safety hazard exists for human being.