



---

## **Certification Exhibit**

**FCC ID: SDBFLXA3D**

**FCC Rule Part: 47 CFR Part 2.1091**

**TÜV SÜD Project Number: 72133516**

**Manufacturer: Sensus Metering Systems, Inc.  
Model: FLXA3D**

## **RF Exposure**

**General Information:**

Applicant: Sensus Metering Systems, Inc.  
 Device Category: Mobile  
 Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type: Dipole  
 Antenna Gain: 1.8 dBi  
 Maximum Transmitter Conducted Power: 31.78 dBm, 1507 mW  
 Maximum System EIRP: 33.58 dBm, 2280 mW  
 Exposure Conditions: 20 centimeters or greater

**MPE Calculation**

The Power Density (mW/cm<sup>2</sup>) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

**Table 1: MPE Calculation**

Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
901.5	31.78	0.60	1506.61	1.8	1.514	20	0.454