



Certification Exhibit

FCC ID: SDBFLXI2102

FCC Rule Part: 47 CFR Part 2.1091

TÜV SÜD Project Number: 72171706

**Manufacturer: Sensus Metering Systems Inc.
Model: FLXI2102**

RF Exposure

TÜV SÜD America
5610 West Sligh Ave., Suite 100
Tampa, FL 33634

Phone: 813-284-2715
www.tuv-sud-america.com

General Information:

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

Technical Information:

Antenna Type: ¼ wave printed monopole
 Antenna Gain: 2.77 dBi
 Maximum Transmitter Conducted Power: 30.94 dBm, 1241.6523 mW
 Maximum System EIRP: 33.71 dBm, 2349.6328 mW
 Exposure Conditions: 20 centimeters or greater

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

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

Where:

- S = power density (in appropriate units, e.g. mW/cm²)
- 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	30.94	0.60	1241.65	2.77	1.892	20	0.467