



Excellence in Compliance Testing

Certification Exhibit

**FCC ID: SDBGFL2CI
IC: 2220A-GFL2CI**

**FCC Rule Part: CFR 47 Part 24 Subpart D, Part 90 Subpart I, Part 101
Subpart C
IC Radio Standards Specification: RSS 119, RSS 134**

ACS Report Number: 10-0299.W06.11.A

**Manufacturer: Sensus Metering Systems, Inc.
Model: GFL2CI**

RF Exposure

General Information:

Applicant: Sensus Metering Systems, Inc.
 ACS Project: 10-0299
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Asymmetrical Dipole Antenna
 Maximum Antenna Gain: -1dBi
 Maximum Conducted Power: 28.43dBm
 Maximum System EIRP: 27.43dBm, 553mW
 Exposure Conditions: Greater than 20 centimeters

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)

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
959.925	28.43	0.64	696.63	-1	0.794	20	0.110

Installation Guidelines

The installation manual should contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

RF Exposure

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

Conclusion

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.