

Certification Exhibit

FCC ID: SDBGFL IC: 2220A-GFL

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: 08-0359-LD

Manufacturer: Sensus Metering Systems Model: GFL

RF Exposure

Model: GFL FCC ID: SDBGFL IC: 2220A-GFL

General Information:

Applicant: Sensus Metering Systems, Inc.

ACS Project: 08-0359
Device Category: Mobile

Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Monopole Antenna Gain: 1dBi

Maximum Transmitter Conducted Power: 30.39dBm, 1.094W

Maximum System EIRP: 31.39dBm, 1.377W 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)

Calculations were performed at low, middle, and high channels within the total band of operation.

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure							
Transmit Frequency	Radio Power	Power Density Limit	Radio Power	Antenna Gain	Antenna Gain (mW	Distance	Power Density
(MHz)	(dBm)	(mW/Cm2)	(mW)	(dBi)	eq.)	(cm)	(mW/cm^2)
896.0125	30.11	0.60	1025.65	1	1.259	20	0.257
928.925	30.39	0.62	1093.96	1	1.259	20	0.274
959.925	30.21	0.64	1049.54	1	1.259	20	0.263

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.