

Certification Exhibit

FCC ID: SDBRGS10 IC: 2220A-RGS10

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: 10-0300.W06.11.A

Manufacturer: Sensus Metering Systems, Inc. Model: RGS10

RF Exposure

General Information:

Applicant:	Sensus Metering Systems, Inc.
ACS Project:	10-0300
Device Category:	Mobile
Environment:	General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Antenna Gain: Maximum Transmitter Conducted Power: Maximum System EIRP: Exposure Conditions: Printed folded dipole antenna 2 dBi 27.02dBm, 504mW 29.02 dBm, 798 mW 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/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)	
941.4875	27.02	0.63	503.50	2	1.585	20	0.159	

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.