

Certification Exhibit

FCC ID: SDBZIGMOD10 IC: 2220A-ZIGMOD10

FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-210

ACS Report Number: 10-0020.W06.11.A

Manufacturer: Sensus Metering Systems, Inc.

Model: ZIGMOD10

RF Exposure

Model: ZIGMOD10 FCC ID: SDBZIGMOD10 IC: 2220A-ZIGMOD10

General Information:

Applicant: Sensus Metering Systems, Inc.

ACS Project: 10-0020 Device Category: Mobile

Environment: Uncontrolled/General Population

Technical Information:

Antenna Type: PCB Inverted F

Antenna Gain: 0dBi

Maximum Transmitter Conducted Power: 20.76dBm Maximum System EIRP: 20.76dBm, 0.119W 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/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
2405	20.76	1.00	119.12	0	1.000	20	0.024
2440	20.37	1.00	108.89	0	1.000	20	0.022
2480	20.03	1.00	100.69	0	1.000	20	0.020

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.