

# **Certification Exhibit**

FCC ID: SDBSLC20 IC: 2220A-SLC20

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

ACS Project Number: 12-2117

Manufacturer: Sensus Metering Systems, Inc.

Model: SLC20

**RF Exposure** 

Model: SLC20 FCC ID: SDBSLC20 IC: 2220A-SLC20

## **General Information:**

Applicant: Sensus Metering Systems, Inc.

ACS Project: 12-2117 Device Category: Mobile

Environment: General Population/Uncontrolled Exposure

## **Technical Information:**

Antenna Type: ½ Wave Dipole Antenna

Antenna Gain: 0 dBi

Maximum Transmitter Conducted Power: 29.21 dBm, 833.68 mW

Maximum System EIRP: 29.21 dBm, 833.68 mW Exposure Conditions: Greater than 20 centimeters

### **MPE Calculation**

The Power Density (mW/cm<sup>2</sup>) 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	Radio	Power	Radio	Antenna	Antenna	Distance (cm)	Power
Frequency	Power	Density Limit	Power	Gain	Gain		Density
(MHz)	(dBm)	(mW/Cm2)	(mW)	(dBi)	(mW eq.)		(mW/cm^2)
900	29.21	0.60	833.68	0	1.000	20	0.166

## **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.