

Certification Exhibit

FCC ID: SDBSLCPIM

FCC Rule Part: CFR 47 Part 24 Subpart D, Part 101 Subpart C

ACS Project Number: 15-3019

Manufacturer: Sensus Metering Systems, Inc. Model: SLCPIM

RF Exposure

General Information:

Applicant:	Sensus Metering Systems, Inc.
Device Category:	Fixed
Environment:	General Population/Uncontrolled Exposure

Technical Information:

Antenna Type:PIFAAntenna Gain:-4 dBiMaximum Transmitter Conducted Power: 29.8 dBm, 955 mWMaximum System EIRP: 25.8 dBm, 380 mWExposure 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)

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)	
900	29.8	0.60	954.99	-4	0.398	20	0.076	

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 greater than 7.1 centimeters be maintained.

Conclusion

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