

Certification Exhibit

FCC ID: SDBTGB20

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

ACS Project Number: 11-2071

Manufacturer: Sensus Metering Systems, Inc. Model: TGB20

RF Exposure

General Information:

Applicant:	Sensus Metering System, Inc.
ACS Project:	11-2071
Device Category:	Fixed
Environment:	General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Monopole AntennaAntenna Gain: 12.15 dBiMaximum Transmitter Conducted Power: 46.52 dBmMaximum System EIRP: 58.67 dBmExposure Conditions: Greater than 310 centimeters

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

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	Power	
Frequency	Power	Density Limit	Power	Gain	Gain	(cm)	Density	
(MHz)	(dBm)	(mW/Cm2)	(mW)	(dBi)	(mW eq.)		(mW/cm^2)	
930.5	46.52	0.62	44874.54	12.15	16.406	310	0.610	

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 310 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.