Excellence in Compliance Testing

Certification Exhibit

Composite Device:
Frequency Hopping Spread Spectrum Transmitter
Digital Transmission System Transmitter

FCC ID: SK9AMI-1A
IC: 864G-AMI1A

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

ACS Report Number(s): 07-0272-900-DSS, 07-0272-2400-DTS

Manufacturer: Itron Electricity Metering Inc.
Model(s): CVSO-A, CVSOD-A

RF Exposure

General Information:

Applicant: Itron Electricity Metering Inc.
ACS Project: 07-0272
FCC ID: SK9AMI-1A
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure
Exposure Conditions: Greater than 20 centimeters
Simultaneous Tx: No

Technical Information:

Radio	900 MHz LAN	2.4GHz Zigbee
Antenna Type	single-band patch	half wavelength slot
Antenna Gain	3dBi	1dBi
Conducted Power	21.92dBm	18.71dBm
Maximum EIRP	0.310W	0.094W
Maximum ERP	0.189W	0.057W

Power Density

The Power Density (mW/cm^2) 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)**
902.25	21.92	0.60	155.60	3	1.995	20	0.062
2405	18.71	1.00	74.30	1	1.259	20	0.019

Installation Guidelines:

The installation manual shall contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

"RF Exposure (Intentional Radiators Only)
In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of 20cm is maintained from the general population."

Conclusion:

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