

FCC Part 15 Transmitter Certification **Test Report**

FCC ID: SK9C1A-2

FCC Rule Part: 15.247

ACS Report Number: 04-0396-15C - DTS

Manufacturer: Itron Electricity Metering, Inc.
Equipment Type: Electricity Meter With Dual RF Transmitters
Trade Name: CENTRONTM ICARe
Model: C1A-2

RF Exposure Information

General Information:

Applicant: Itron Electricity Metering, Inc.
 ACS Project: 04-0396
 FCC ID: SK9C1A-2
 Device Category: Fixed Mount
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Patch
 Antenna Gain: 0dBi
 Transmitter Conducted Power: 25.33dBm
 Maximum System EIRP: 25.33dBm
 Operating Configuration: Mounted on side of residential or commercial structure
 Exposure Conditions: Greater than 20 centimeters

MPE Calculation

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } P_d = (mW/cm^2) = \frac{E^2}{3770}$$

MPE Distance

| MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure* | | | | | |
|---|----------------------|--------------------|-----------------------|--------------------------|----------------------|
| Transmit Freq. (MHz) | Radio Power (dBm) | Radio Power (W) | Antenna Gain (dBi) | Antenna Gain (mW eq.) | MPE Distance (cm) |
| 917.58 | 25.33 | 0.34119 | 0 | 1.00 | 6.67 |

Installation Guidelines

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

“RF Exposure (Intentional Radiators Only)

This equipment complies with the FCC RF radiation requirements for uncontrolled environments. To maintain compliance with these requirements, the antenna and any radiating elements should be installed to ensure that a minimum separation distance of 20 cm 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.