

Certification Exhibit

FCC ID: QZC-RX2EA4FI

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

ACS Project Number: 14-0372

Manufacturer: Elster Solutions, LLC Model: RX2EA4FI

RF Exposure

Model: RX2EA4FI FCC ID: QZC-RX2EA4FI

General Information:

Applicant: Elster Solutions, LLC

Environment: General Population/Uncontrolled Exposure

Exposure Conditions: Mobile

Technical Information:

Antenna Type: Inverted F-type Antenna

Antenna Gain: 3.5 dBi

Maximum Transmitter Conducted Power: 23.99 dBm, 250.61 mW

Maximum System EIRP: 27.49 dBm, 561.05 mW

Technical Information:

Antenna Type: Dipole Antenna Antenna Gain: 5.15 dBi

Maximum Transmitter Conducted Power: 23.99 dBm, 250.61 mW

Maximum System EIRP: 29.14 dBm, 820.35 mW

Technical Information:

Antenna Type: Stubby Antenna

Antenna Gain: 3 dBi

Maximum Transmitter Conducted Power: 23.99 dBm, 250.61 mW

Maximum System EIRP: 26.99 dBm, 500.03 mW

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)

| 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) |
| 916 | 23.99 | 0.61 | 250.61 | 3.5 | 2.239 | 20 | 0.112 |
| 916 | 23.99 | 0.61 | 250.61 | 5.15 | 3.273 | 20 | 0.163 |

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.