

Certification Exhibit

FCC ID: QZC-REXUANZ

FCC Rule Part: 15.247

ACS Project Number: 15-0286

Manufacturer: Elster Solutions, LLC

Model: REXUA-NZ

RF Exposure

Model: REXUA-NZ FCC ID: QZC-REXUANZ

General Information:

Applicant: Elster Solutions, LLC

Device Category: Mobile

Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Inverted F Antenna Gain: 4.1 dBi

Maximum Transmitter Conducted Power: 29.30 dBm, 851.1 mW

Maximum System EIRP: 33.4 dBm, 2187.8 mW Exposure 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)

MPE Calculator for Mobile Equipment							
Limits for General Population/Uncontrolled Exposure*							
Transmit	Radio	Power	Radio	Antenna	Antenna	Dietanas	Power
Frequency	Power	Density Limit	Power	Gain	Gain	Distance (cm)	Density
(MHz)	(dBm)	(mW/Cm2)	(mW)	(dBi)	(mW eq.)	(CIII)	(mW/cm^2)
916	29.3	0.61	851.14	4.1	2.570	20	0.435

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.