

# **Certification Exhibit**

FCC ID: R7PIWRS5 IC: 5294A-IWRS5

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

ACS Project Number: 12-0336

Manufacturer: Landis+Gyr Technology, Inc. Model: Gridstream Series-5 IWR

**RF Exposure** 

Model: Gridstream Series-5 IWR FCC ID: R7PIWRS5 IC: 5294A-IWRS5

# **General Information:**

Applicant: Landis+Gyr Technology, Inc.

Device Category: Mobile

Environment: General Population/Uncontrolled Exposure

## **Technical Information:**

Antenna Type: Omni-directional whip

Antenna Gain: 5.5dBi

Maximum Transmitter Conducted Power: 29.73 dBm, 939.72 mW

Maximum System EIRP: 35.23 dBm, 3334.26 mW Exposure Conditions: Greater than 22 centimeters

### **MPE Calculation**

The Power Density (mW/cm<sup>2</sup>) 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	Dietomos	Power
Frequency	Power	Density Limit	Power	Gain	Gain	Distance	Density
(MHz)	(dBm)	(mW/Cm2)	(mW)	(dBi)	(mW eq.)	(cm)	(mW/cm^2)
902.3	29.73	0.60	939.72	5.5	3.548	22	0.548

## **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 22 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.