

RF Exposure Report

Project Number: 4824404

Proposal: SUW-202109001591

Report Number: 4824404EMC02

Revision Level: 0

Client: Landis+Gyr Technology, Inc.

Equipment Under Test: Smart Meter

Model Number: AXei E352

FCC ID: R7PEG1R2X6

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498

FCC OET Bulletin 65 Supplement

Report issued on: 01 October 2021

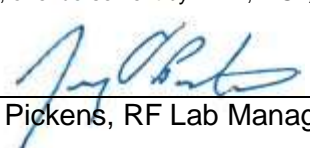
Test Result: Compliant



FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

Prepared by:



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Reviewed by:



David Schramm, Operations Manager

Remarks: This report details the results of the testing carried out on one sample; the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 General Information

1.1 Client Information

Name: Landis+Gyr Technology, Inc.
Address: 30000 Mill Creek Avenue, Suite 100
City, State, Zip, Country: Alpharetta, GA 30022, USA

1.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

1.3 General Information of EUT

Product Description: Smart Meter
Model Number: AXei E352
Serial Number: 40E24B60

Modes of Operation: 802.15.4, Zigbee (O-QPSK)
902-928MHz, (9.6/10/19.2/20/38.4/50/115.2/150/200kbps FSK/GFSK)
FCC ID (900MHz Radio Module): R7PNG0R1S7

Antenna Type: 2.4GHz: +5dBi Max PIFA
900MHz: 0dBi Max PIFA

Sample Received Date: 10 April 2021
Dates of testing: 08 – 11 May 2021

1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum measured peak conducted power was considered.

2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 Test Method

Using the maximum measured peak conducted power, the power density was calculated. Maximum antenna gain was assumed for this exercise.

2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density EIRP _{Avg} /(4πR ²) mW/cm ²	FCC mW/cm ²	% of Limit	Verdict
Type	MHz				dBm	mW					
802.15.4	2400-2483.5	18.6	5.0	0.0	23.6	231	20	0.046	1.00	5%	Pass
Sub GHz	902-928	28.9	0.0	0.0	28.9	769	20	0.153	0.60	25%	Pass

2.4 Simultaneous transmission RF Exposure Levels

	802.15.4	900MHz
802.15.4		30%
900MHz	30%	

Note: Highlighted value only indicates worst-case.

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	01 October 2021