

Certification Test Report:		2014 12247317	FCC2	
Applicant:		Linear LLC 1950 Camino V Carlsbad, CA 9: USA		
Equipment Undo (E.U.T.)	er Test:	GD00Z-1		
FCC Identifier:		EF400116		
In Accordance V	With:	PART 15, SUBI	PART B	
Tested By:	(1) 1.	Nemko USA Ind 2210 Faraday A Suite 150 Carlsbad, CA 9	Ave.	
TESTED BY:	David Light, Wirele	ess Engineer	DATE:	15 January 2014
APPROVED BY:	Alan Laudani Senior RF/EMC E		DATE:	15 January 2014
	Tot	al Number of P	ages: 13	

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Section 1. Summary Of Test Re	esuits
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Manufacturer: Linear LLC

Model No.: GD00Z-1

Serial No.: None

General: All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15.B. All tests were conducted using measurement procedure ANSI C63.4-2003. Radiated Emissions were made in a semi-anchoic chamber. A description of the test facility is on file with the FCC and Industry Canada.

\boxtimes	New Submission	Production Unit
	Class II Permissive Change	Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See "Summary of Test Data".



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CFR 47, PART 15, SUBPART B

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Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT	
Conducted Emissions	FCC 15.107	Complies	
Radiated Emissions	FCC 15.109	Complies	

Section 2. General Equipment Specification

Operating Frequency(ies) of Sample:	345 MHz Single channel		
Tunable Bands:	None		
Number of Channels:	1		
Modulation:	GFSK		
Emissions Designator:	32KF1D		
Channel Spacing:	NA		
User Frequency Adjustment:	None		
Integral Antenna	Yes No		

Description of EUT

The GD00Z-1 will allow a Lowes Iris Home control system to monitor the status of the Garage door via an RF tilt senor and provide this information to the control system for home security monitoring. The Iris system will talk with the GD00Z-1 to allow unattended operation of the Garage door with a relay contact closure to the wall panel input terminals at the GD0, IF the conditions (set by UL standard 325) are met. The GD00Z-1 will provide a flashing bright white lamp and Buzzer sound as a warning signal required by the UL standard. The Contact closure points will also be monitored in the occurrence of someone pressing the button at the garage wall panel during the UL 325 defined warning period. The GD00Z-1 also includes a 345 MHz radio receiver circuit to receive the status of the door sensor position and condition.

Nemko USA, Inc.

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Section 3. Powerline Conducted Emissions

NAME OF TEST: Powerline Conducted Emissions

TESTED BY: David Light DATE: 16 December 2013

Minimum Standard: Conducted limits.

Sec. 15.107 Conducted limits.

(a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 [mu]H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Test Results: Complies . See attached graph(s).

Measurement Data: See attached graph(s).

Method of Measurement: (Procedure ANSI C63.4-2003)

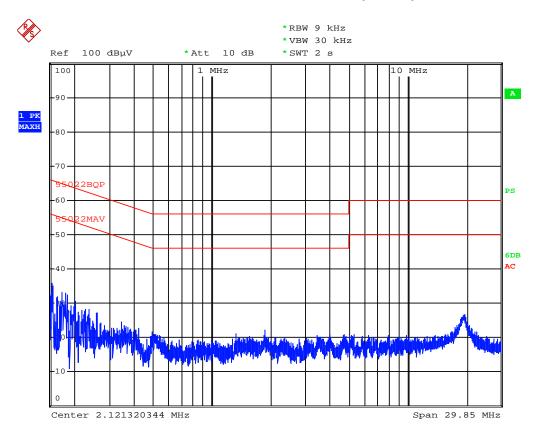
Measurements were made using a spectrum analyzer with 10 kHz RBW, Peak Detector. Any emissions that are close to the limit are measured using a test receiver with 10 kHz bandwidth, CISPR Quasi-Peak Detector.

Measurements conditions: Temperature 22°C

Relative Humidity 35%

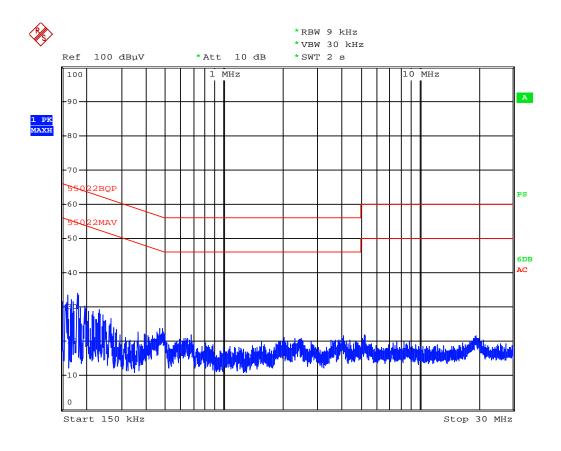
^{*}Decreases with the logarithm of the frequency.

Test Data – Powerline Conducted Emissions (Line 1)



Date: 16.DEC.2013 16:07:39

Test Data – Powerline Conducted Emissions (Neutral)



Date: 16.DEC.2013 16:08:41

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Section 4. Radiated Emissions

NAME OF TEST: Radiated Emissions

TESTED BY: David Light DATE: 16 December 2013

Minimum Standard: Para no. 15.109(a)

(a) The field strengths shall not exceed the following:

Frequency	Field Strength	Field Strength	Frequency	Field Strength	
(MHz)	(microvolts/m	(dBµV/m at 3	(MHz)	(microvolts/m at	
	at 3 meters)	meters)		3 meters)	
30-88	100	40.0	30-88	100	
88-216	150	43.5	88-216	150	
216-960	200	46.0	216-960	200	
Above 960	500	54.0	Above 960	500	

Test Results: Complies; see graphs below

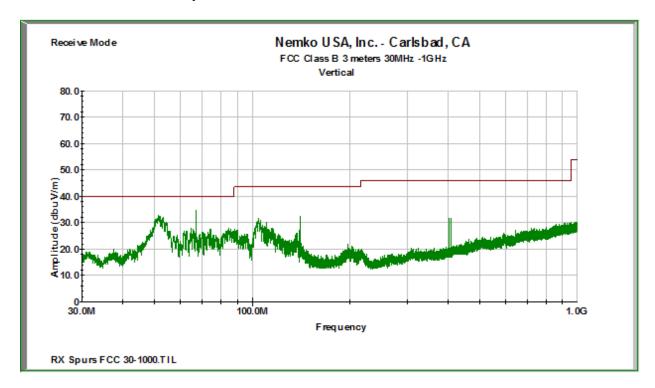
Measurements conditions: Temperature 22°C

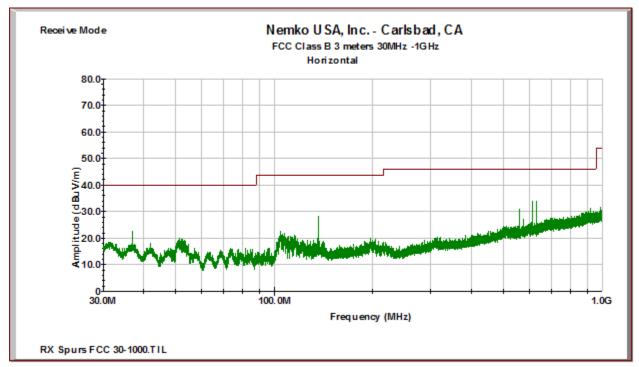
Relative Humidity 35%

Analyzer Settings: <1000 MHz RBW = 100 kHzVBW = 300 kHzPeak Detector

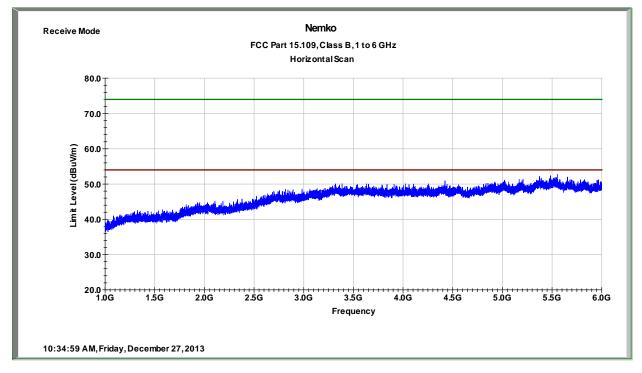
>1000 MHz RBW = 1 MHz VBW = 3 MHz Peak Detector

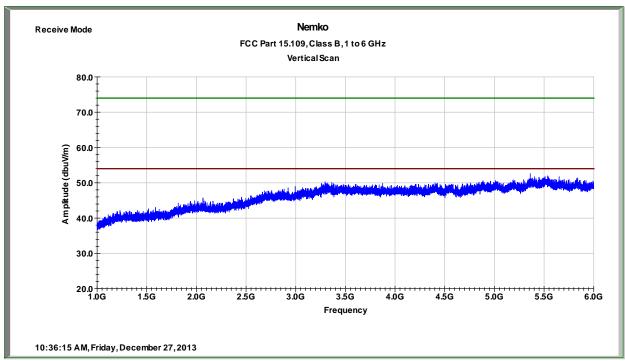
Test Data - Receiver Spurious Emissions





Test Data - Receiver Spurious Emissions





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Section 6. Test Equipment List

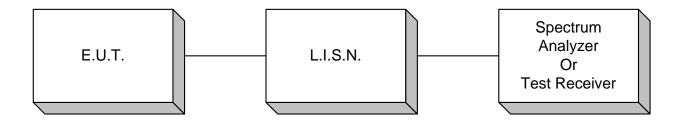
Asset Tag	Description	Manufacturer	Model	Serial #	Last Cal	Next Cal
752	Antenna,	EMCO	3115	4943	03-Jan-2013	03-Jan-2014
	DRWG					
827	Preamplifier	Com-Power	PA-103	161032	14-Jul-2013	14-Jul-2014
E1030	10 Meter Low	A.H. Systems,	SAC-18G-10	1096	23-Dec-2012	23-Dec-2013
	Loss Cable	Inc.				
1763	Antenna,	Schaffner	CBL 6111D	22926	07-Mar-2013	07-Mar-2014
	Bilog					
1016	Preamplifier	Hewlett	8449A	2749A00159	20-Aug-2013	20-Aug-2014
		Packard				
1036	Spectrum	Rohde &	FSEK30	830844/006	15-Jul-2013	15-Jul-2015
	Analyzer	Schwartz				
E1019	Two Line V-	Rohde &	ENV216	101045	13-Apr-2013	13-Apr-2014
	Network	Schwarz				
E1026	EMI Test	Rohde &	ESCI 7	100800	15-Jul-2013	15-Jul-2014
	Receiver 9kHz	Schwarz				
	to 7GHz					

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ANNEX A TEST DIAGRAMS

Conducted Emissions



Test Site For Radiated Emissions

