

FCC 47 CFR PART 15 SUBPART C INDUSTRY CANADA RSS-210 ISSUE 8

CERTIFICATION TEST REPORT

FOR

Universal Sensor

MODEL NUMBER: FGBS001

FCC ID: 2AA9MFGBS001

REPORT NUMBER: 10044158C

ISSUE DATE: February 11, 2014

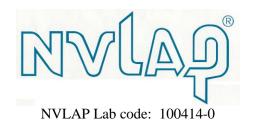
Prepared for

Fibar Group sp. z.o.o ul. Lotnicza 1 Poznań, Poland 60-453

Prepared by

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Revision History

	Issue		
Rev.	Date	Revisions	Revised By
	2/11/14	Initial Issue	M.Ferrer

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Fibar Group sp. z.o.o

Ul. Lotnicza 1

Poznan, Poland 60-453

EUT DESCRIPTION: Universal Sensor

MODEL: FGBS001

SERIAL NUMBER: Prototype

DATE TESTED: September 12, 2013 – February 4, 2013

APPLICABLE STANDARDS

STANDARD TEST RESULTS

CFR 47 Part 15 Subpart C Part 15.249 Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex A2.9 Pass

INDUSTRY CANADA RSS-GEN Issue 3 Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out byUL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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Tested By:

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WISE STAFF ENGINEER

UL Verification Services Inc.

MICHAEL FERRER WiSE Project Lead

UL Verification Services Inc.

FORM NO: CCSUP4701G

DATE: February 11, 2014

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 333 Pfingsten Road, Northbrook, IL 60062, USA.

UL NBK is accredited by NVLAP, Laboratory Code 100414-0.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus: (MU shows 10m, but Emissions were extrapolated to 3m)

Test	Range	Equipment	Uncertainty k=2
Radiated Emissions	30-200MHz	Bicon 10m Horz	4.27dB
Radiated Emissions	30-200MHz	Bicon 10m Vert	4.28dB
Radiated Emissions	200-1000MHz	LogP 10m Horz	3.33dB
Radiated Emissions	200-1000MHz	LogP 10m Vert	3.39dB
Radiated Emissions	1-6GHz	Horn	5.02dB
Radiated Emissions	6-18GHz	Horn	5.34dB
Radiated Emissions	18-26GHz	Horn	6.60dB
Conducted Ant Port	30MHz-26GHz	Spectrum Analyzer	2.94
RF Power	dB	Power Meter	0.45dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT contains a 908MHz transceiver. It is DC powered. The transmitter utilizes Z-wave technologies to communicate with other devices for home automation. EUT can be configured in 2 ways, alarm mode and temp mode.

The radio is manufactured by Fibar Group

5.2. MAXIMUM OUTPUT E-FIELD STRENGTH

The transmitter has a maximum output quasi-peak E-field as follows: Data from section 7.2

Frequency Range	Mode	Output E-field Strength
(MHz)		(dBuV/m)
908	TX	91.69

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an isolated copper wire type whip antenna

5.4. WORST-CASE CONFIGURATION AND MODE

The EUT was set in worst axis as found in preliminary testing. X-axis is worst axis. There are 2 modes Temp mode and Alarm mode as shown in block diagram. Only temp mode was tested for Conducted Emissions as either mode will not affect this test.

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5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Use	Product Type	Manufacturer Model		Comments				
EUT	Sensor	Fibar	FGBS001	None				
AE	Power Supply	-	MW41-1200500	12VDV 500mA output				
AE	Temp Sensor	-	-	3 wire connection				
Note: EUT - Equipment Under Test, AE - Auxiliary/Associated Equipment, or SIM - Simulator (Not Subjected to Test)								

I/O CABLES

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	_	_	None
1	DC input	DC	N	N	AC adapter provided DC input
2	IO lines	10	N	N	1m wire to Temp Sensor
3	IO Lines	Ю	N	N	1m wires
4	IO lines	Ю	N	N	6in wires connected to all IO ports

Note:

AC = AC Power Port

DC = DC Power Port

N/E = Non-Electrical

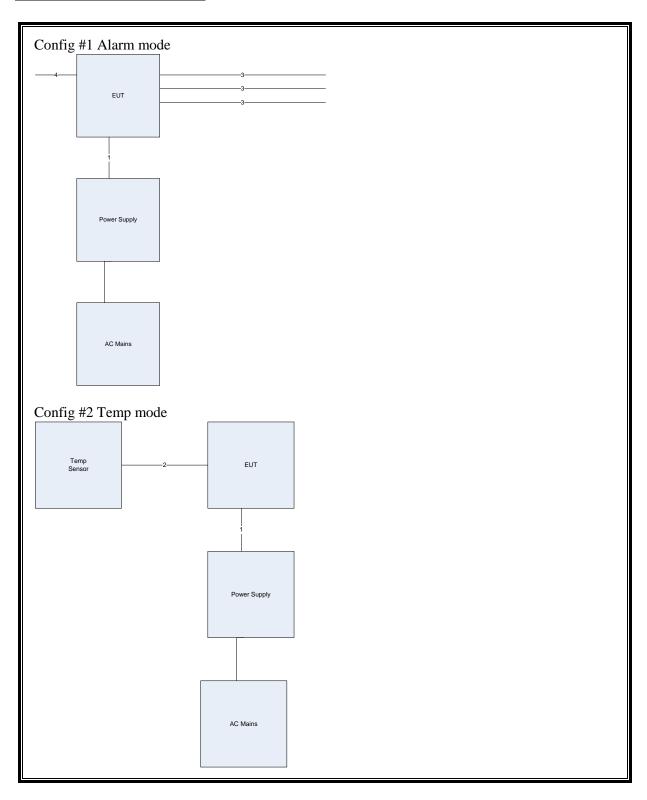
I/O = Signal Input or Output Port (Not Involved in Process Control)

TP = Telecommunication Ports

TEST SETUP

The EUT is programmed for continuous TX mode.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List									
Description	Manufacturer	Model	Asset	Cal Date	Cal Due				
EMI Test Receiver	Rohde & Schwarz	ESU	EMC4323	20121227	20131231				
Bicon Antenna	Chase	VBA6106A	EMC4078	20130213	20140228				
Log-P Antenna	Chase	UPA6109	EMC4258	20121015	20131030				
Spectrum Analyzer	Rhode & Schwarz	FSEK	EMC4182	20121226	20131231				
Antenna Array	UL	BOMS	EMC4276	20111227	20131231				
Spectrum Analyzer	Agilient	N9030A	EMC4360	20121226	20131226				
Near Field Antenna	EMCO	-	-	-	-				
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC4328	20121230	20131230				
LISN	Solar	8602-50-TS-50-N	EMC4052	20130115	20140116				
LISN	Solar	8602-50-TS-50-N	EMC4064	20130115	20140116				

Log-P Antenna was used during testing in September before cal due date.

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7. TEST RESULTS

7.1.1. 99%, 20dB BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 10kHz bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth and 20dB function is utilized.

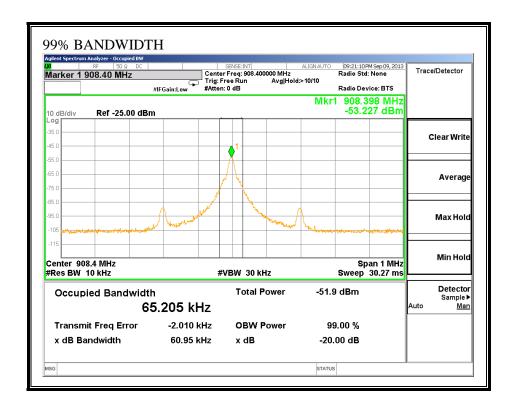
RESULTS

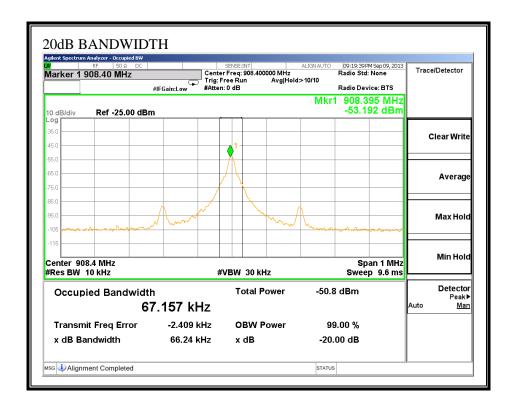
Channel	Frequency
	(kHz)
99%	65.205
20dB	66.24

DATE: February 11, 2014

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99% BANDWIDTH





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7.2. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4

LIMIT

IC RSS-210, A2.9 FCC 15.249

Operation within the bands 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHZ, and 24.0–24.25 GHz.

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Limit is 3m

Fundamental frequency	Field strength of fundamental (millivolts/ meter)	Field strength of harmonics (microvolts/ meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

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Frequency (MHz)	Field strength (microvolts/meter)	Measure- ment dis- tance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 ***	3
88-216	150 **	3
216-960	200 ***	3
Above 960	500	3

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

RESULTS

Manufacturer:Fibar Model#Universal Sensor Mode:Security contacts to GND, TX Voltage:120Vac 60Hz Yellow PS RED:Horizontal, GREEN:Vertical

Radiated Emis Test Frequency (MHz)	Meter	Transducer Factor (dB)	Gain/Loss Factor (dB)	Corrected : Reading dB(2 neter)	3	4	5	6	Notes
LogP Horizont 908.3808 Azimuth: 228	al 200 - 1000MHz 51.73dBuV QP Height:100 Horz	23	10	84.73 Margin (dB):	- - -	94 -9.27	- -	- - -	- - -	- - -	1
908.3808 Azimuth: 272	45.27dBuV QP Height:108 Vert	23	10	78.27 Margin (dB):	- -	94 -15.73	- -	- -	-	- -	1
908.3808 Azimuth: 14	48.78dBuV QP Height:116 Vert	23	10	81.78 Margin (dB):	- -	94 -12.22	- -	- -	-	- -	2
908.3808 Azimuth: 229	54.38dBuV QP Height:102 Horz	23	10	87.38 Margin (dB):	- -	94 -6.62	- -	- -	-	- -	2
908.3808 Azimuth: 308	58.69dBuV QP Height:103 Horz	23	10	91.69 Margin (dB):	-	94 -2.31	- -	- -	-	- -	3
908.3808 Azimuth: 203	57.83dBuV QP Height:128 Vert	23	10	90.83 Margin (dB):	<u>-</u>	94 -3.17	-	- -	-	- -	3

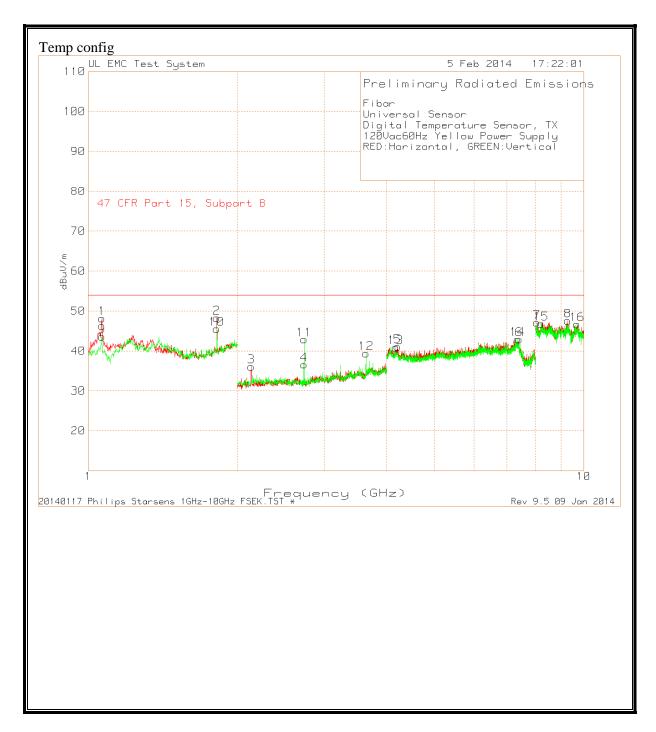
Notes: 1 - Z-Axis (Laying Flat) 2 - Y-Axis (On Side) 3 - X-Axis (Standing Up)

LIMIT 1: NONE LIMIT 2: FCC 15.249 Limit LIMIT 3: NONE LIMIT 4: NONE LIMIT 5: NONE LIMIT 6: NONE

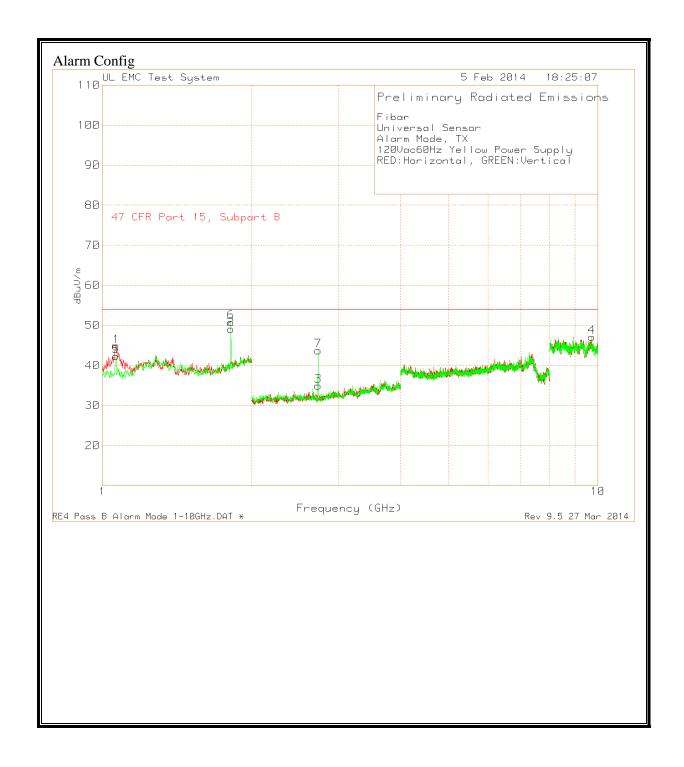
QP - Quasi-Peak detector

Measurements for above data were measured at 3m.

7.2.1. HARMONICS AND SPURIOUS EMISSIONS ABOVE 1GHz



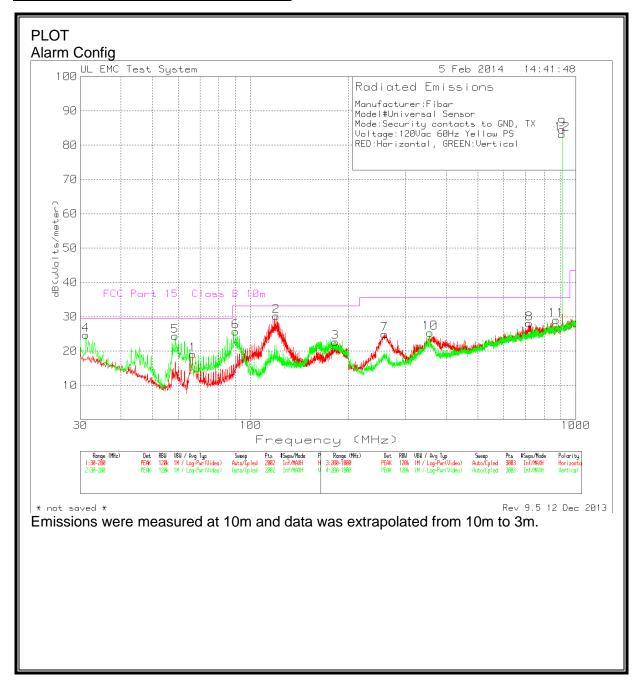
Fibar											
Universal S	ensor										
Digital Tem	perature Ser	nsor, TX									
	z Yellow Pow										
	ntal, GREEN:										
Marker No.	Test Frequency (GHz)	Meter Reading(dBuV)	Detector	Factor	BOMS Factor (dB)	Corrected Reading dBuV/m	47 CFR Part 15, Subpart B	Margin	Azimuth	Height [cm]	Polarity
1		76.94		ив/III 27.2	-55.98	48.16			0-360	100	
2	1.8176	76.94		30.1	-53.55	48.3			0-360	100	
3	2.1321	66.71		21.5	-52.09	36.12				100	
4	2.7247	65.15		22.1	-50.66	36.59				100	
5	4.2121	64.05		28.3	-51.26					150	
6	7.4017	58.06		31.2		42.91				150	
7	8.04	57.96		36.1	-46.9	47.16			0-360	150	
8	9.2933	59.08		36.4					0-360	150	
9	1.0661	72.4		27.2	-55.98	43.62				100	
10	1.8176	68.95		30.1	-53.55	45.5			0-360	100	
11	2.7247	71.43		22.1	-50.66	42.87		-11.13	0-360	150	
12	3.6356	65.75	PK	23.3	-49.67	39.38	54	-14.62	0-360	150	V
13	4.1741	63.39	PK	28.3	-50.82	40.87	54	-13.13	0-360	150	V
14	7.3517	57.96	PK	30.8	-45.82	42.94	54	-11.06	0-360	150	V
15	8.2062	57.91	PK	36.3	-47.4	46.81	54	-7.19	0-360	150	V
16	9.6997	57.94	PK	36.4	-47.69	46.65	54	-7.35	0-360	150	V
Toot	Matar		Antonno	DOME	Commontod	47.CFD					
Test	Meter		Antenna	BOMS		47 CFR	Margin	Azimuth	Hoight		
Frequency (GHz)	(dBuV)	Detector	Factor	Factor (dB)	Reading dBuV/m	Part 15, Subpart B	Margin (dB)		Height [cm]	Polarity	
1.0664	(aBuv) 77.75		ав/m 27.2		48.98	Subpart B 54		[Degs] 120			
1.0658	67.39		27.2		38.61						
1.8168	74.96		30.1		51.51						
1.8168	72.26		30.1	-53.55	48.81	54		122			
1.0100	72.20	LIIAV	30.1	-33.33	40.01	34	-3.13	122	104	11	
PK - Peak d	etector										
LnAv - Linea	ar Average d	etector									



Fibar											
Universal Se	ensor										
Alarm Mode	e, TX										
120Vac60Hz	Yellow Pow	er Supply									
RED:Horizoı	ntal, GREEN:	Vertical									
	Test	Meter		Antenna		Corrected	47 CFR				
	Frequency			Factor	BOMS	Reading	Part 15,	Margin	Azimuth	Height	
Marker No.		dBuV)	Detector		Factor (dB)		Subpart B	. 0	[Degs]	[cm]	Polarity
1	1.0661	73.53		27.2	-55.98			` '	0-360	95	
2	1.8176	72.56		30.1	-53.55				0-360	95	
3	2.7247	63.49		22.1	-50.66					150	
4	9.7277	58.59		36.4	-47.89				0-360	150	
5	1.0641	71.1		27.2					0-360	150	
6	1.8176	74.29		30.1					0-360	150	
7		72.32		22.1	-50.66					150	
PK - Peak de	etector										
Test	Meter		EMCO311			47 CFR Part					
Frequency	Reading		7 S/N	Factor	Reading	15,	Margin	Azimuth	-		
(GHz)			00060338	-	dBuV/m	· ·	(dB)	[Degs]	[cm]	Polarity	
1.8167	75.7		30.1		52.25						
1.8168	73.29		30.1		49.84				-		
1.8168	71.2		30.1		47.75						
1.8168	66.83	LnAv	30.1	-53.55	43.38	54	-10.62	154	119	V	
PK - Peak de	etector										
LnAv - Linea	r (voltage) a	average de	tector								

7.2.2. WORST-CASE BELOW 1 GHz

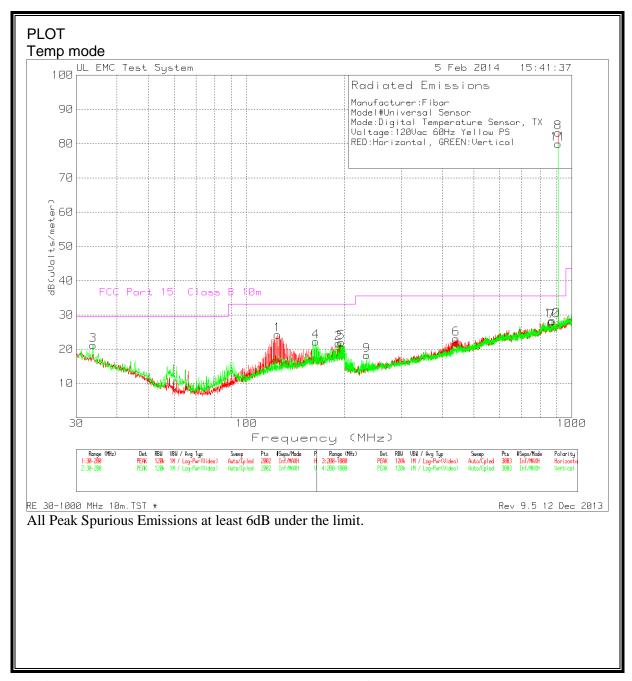
SPURIOUS EMISSIONS 30 TO 1000 MHz



Mode:Security contacts to GND, TX Voltage:120Vac 60Hz Yellow PS RED:Horizontal, GREEN:Vertical

Manufacturer:Fibar Model#Universal Sensor

	e Markers	Makan		C-:-/I	0	T : : 1	2	2	4	_	6
No.	Test Frequency (MHz)		Factor (dB)	Factor (dB)	Reading dB	(uVolts/me	ter)				
Bico	n Horizonta	30 - 200MHz									
L 66	.4468	42.78dBuV PK Azimuth:0-360 46.75dBuV PK Azimuth:0-360	6.2	-30	18.98	-	-	-	29.55		-
0 11	9.8851	Azimuth: 0-360) Height:399	Horz	Margin (dB)	_	_	_	-10.57 33.07		_
2 11	9.8831	40./3dBuv PA Azimuth:0=360	13.2 Height:399	-29.8 Horz	Margin (dB)	_	_		-2.92		_
3 18	2.5837	35.98dBuV PK	15.8	-29.2	22.58	_	_				_
		Azimuth:0-360	Height:399	Horz	Margin (dB)	-	-	-	33.07 -10.49	-	-
		30 - 200MHz									
1 31	.1894	37.39dBuV PK					-	-	29.55		-
	6000	Azimuth:0-360	Height:99	Vert	Margin (dB)		-	-	-4.86		-
58	.6307	47.3dBuV PK Azimuth:0-360 46.62dBuV PK	7.1	-30.1	24.3	-	-	-	29.55		-
- 00	0.0	Azimutn: U-360	Height:250	vert	Margin (dB)	-	_	_	-5.25 33.07		_
) 89	.98	Azimuth:0-360	Height:250	-29.9 Vert	Margin (dB)	-	_	_	-7.35		-
ωαΡ	Horizontal	200 - 1000MHz									
		38.9dBuV PK	12.4	-26.4	24.9	_	_	_	35.57	_	_
		Azimuth:0-360	Height:299	Horz	Margin (dB)	_	-	-	-10.67		-
3 72	0.986	Azimuth:0-360 31.72dBuV PK Azimuth:0-360	20.6	-24.3	28.02	-	-	-	35.57	-	-
		Azimuth:0-360	Height:99	Horz	Margin (dB)	-	-	-	-7.55		-
90	8.5943	86.11dBuV PK	23.2	-24.8	84.51	-	_	-	35.57 48.94	-	-
		Azimuth:0-360) Height:99	Horz	Margin (dB)	-	-	-	48.94	-	-
		00 - 1000MHz							05.55		
.0 3	56.1626	36.19dBuV PK				-	_	-	35.57		-
1 0	70.2199	Azimuth: 0-360	Height:99	vert	Margin (dB)	-	-	_	-10.28 35.57		_
.1 0	70.2199	31.03dBuV PK Azimuth:0-360	22.J N Height:300	-24.J Wert	Margin (dB)	_	- - -	_	35.57 -6.54 35.57	_	_
12 9	08.5943	84.86dBuV PK	23.2	-24.8	83.26	_	_	_	35.57	_	_
	00.0310	Azimuth:0-360	Height:199	Vert	Margin (dB)	-	-	-	47.69		-
LIMI LIMI LIMI LIMI	T 1: NONE T 2: NONE T 3: NONE T 4: FCC Pa T 5: NONE T 6: NONE	rt 15 Class B	10m								
Mode Mode Volt	age:120Vac										
	Frequency (MHz)	Meter Reading	Transducer Factor (dB)	Factor (dB)	Reading dB	(uVolts/me	ter)		4	5	6
=							======	======		======	:=====
		30 - 200MHz	10.0	00.0	0.7				22.25		
		44.06dBuV QP eight:382 Horz		-29.8	27.46 Margin (dB)	- : -	_	_	33.07 -5.61	_	_
	n Vertical	_									
		30 - 200MHZ 36.07dBuV QP	17.3	-30.1	23.27	_	_	_	29.55	_	_
		eight:100 Vert		-30.1	23.27 Margin (dB)	: -	_	-	-6.28	-	_
Azim	uth: 65 H	45.49dBuV QP eight:234 Vert rt 15 Class B	7.1 10m	-30.1	22.49 Margin (dB)	: -	-	-	29.55 -7.06	-	-
PK -	Peak detec	tor detector									



Emissions were measured at 10m and data was extrapolated from 10m to 3m.

8. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207 (a) IC RSS-GEN, Section 7.2.2

Frequency of emission	Conducted Limit (dBµV)						
(MHz)	Quasi-peak	Average					
0.15 to 0.50	66 to 56*	56 to 46*					
0.50 to 5	56	46					
5 to 30	60	50					
* Decreases with the logarithm of the frequency.							

TEST PROCEDURE

ANSI C63.4

RESULTS

No non-compliance noted:

WORST EMISSIONS

Manufacturer:Fibaro Model#Universal Sensor Mode:Running Voltage:120Vac60Hz to DC power supply RED:Line L1, GREEN:Neutral N

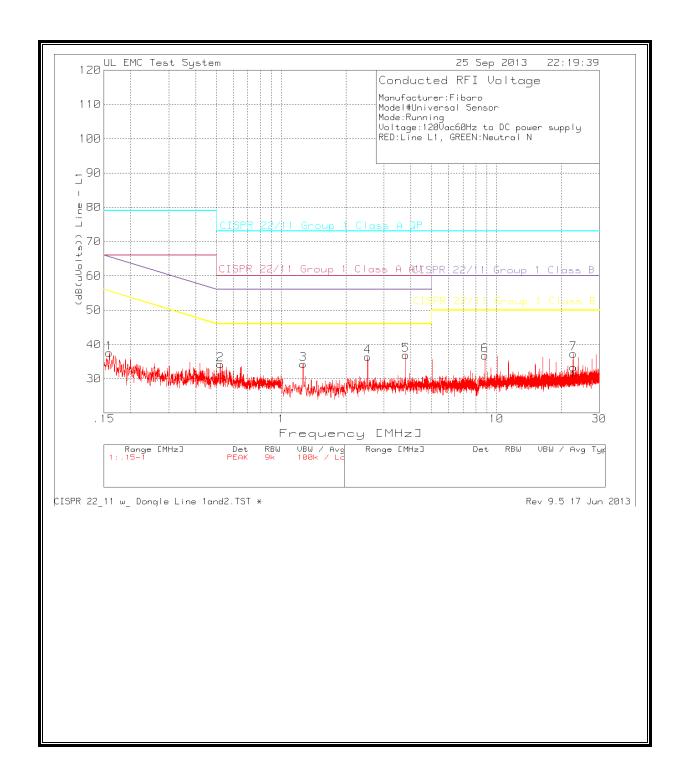
Trace Markers Test No. Frequency [MHz]	-	Factor [dB]	Factor [dB]	Reading	(dB(uVol	Lts))					6
Line - L1 .15 -											
1 .15913	23.42dBuV PK							55.51	_	_	
			Margin [dB]		-41.48					_	
2 .52064	23.5dBuV PK	.1	Margin [dB]	34.2	73	60	56	46	_	_	
			Margin [dB]		-38.8	-25.8	-21.8	-11.8	-	-	
Line - L1 1 - 3	OMIL										
3 1.26439	23.62dBuV PK							46	_	_	
3 1.20433	23.02abuv 1K	• ±	Margin [dB]			-25.68				_	
4 2.52117	25.66dBuV PK	.1	10.6	36.36	73	60			_	_	
1 2.02117	20.00020. 11	• -	Margin [dB]		-36.64			-9.64	_	_	
5 3.78519	26.13dBuV PK	.1	10.7					46	_	_	
			Margin [dB]		-36.07	-23.07	-19.07	-9.07	_	_	
6 8.83402	25.71dBuV PK	. 2	10.9	36.81	73	60	60	50	-	-	
			Margin [dB]		-36.19	-23.19	-23.19	-13.19	-	-	
7 22.69477	25.49dBuV PK	. 2	11.6	37.29	73	60	60	50	-	-	
			Margin [dB]		-35.71	-22.71	-22.71	-12.71	-	-	
Line - L2 .15 -	- 1MHz										
	23.2dBuV PK							55.23	_	_	
			Margin [dB]							_	
9 .57532	22.96dBuV PK	.1	10.6	33.66	73	60	56	46	_	_	
			Margin [dB]		-39.34	-26.34	-22.34	-12.34	-	-	
Line - L2 1 - 3	OMIL										
10 1.25715	24.8dBuV PK	.1	10.6				56	46	_	_	
10 1.23/13	24.0UDUV FR		Margin [dB]			-24.5			_	_	
11 2.51755	25.15dBuV PK	.1	10.6	35.85					_	_	
11 2.31/33	23.13dbav III	• ±	Margin [dB]		-37.15			-10.15	_	_	
12 3.77794	25.84dBuV PK	. 1	10.7	36.64		60		46	_	_	
			Margin [dB]		-36.36			-9.36	_	_	
13 10.07631	25.53dBuV PK	.1	11	36.63	73	60	60	50	_	-	
			Margin [dB]		-36.37	-23.37	-23.37	-13.37	-	-	
14 23.93706	24.29dBuV PK	.5	11.6	36.39	73	60	60	50	-	-	
			Margin [dB]		-36.61	-23.61	-23.61	-13.61	-	-	

LIMIT 1: CISPR 22/11 Group 1 Class A QP LIMIT 2: CISPR 22/11 Group 1 Class A AV LIMIT 3: CISPR 22/11 Group 1 Class B QP LIMIT 4: CISPR 22/11 Group 1 Class B AV

LIMIT 5: NONE LIMIT 6: NONE

PK - Peak detector

LINE 1 RESULTS



LINE 2 RESULTS

