

FCC Test Report E4064047201DW

Type / Model Name:	CC-2G1
Product Description:	Remote Transmitter
Applicant:	Controlled Entry Distributors, Inc.
FCC ID:	SU7CC2G1



FCC -- TEST REPORT

Test Report No. : E4064047201DW		November 4, 2008 Date of issue
Type / Model Name	: CC-2G1	
Product Description	: Remote Transmitter	
Applicant	: Controlled Entry Distrib	outors, Inc.
Address	: <u>2500 south 3850 West</u>	:
	Suite A, Slt Lake City	
	Utah 84120, USA	

Test Result according to the standards listed in clause 1 test standards:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

FCC Part 15, July 10, 2008

ANSI C63.4:2003

Federal Communications Commission, Part 15 – Radio Frequency Device

Method of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

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2 SUMMARY

GENERAL REMARKS:

None

FINAL ASSESSMENT:

The equipment under test fulfils the technical requirement cited in section 15.231 of FCC Part 15

Date of receipt of test sample

: September 24, 2008

Testing commenced on

: September 24, 2008

Testing concluded on

: November 4, 2008

Reviewed by:

Wilson Loke Senior Manager

Prepared by:

Davis Wei Engineer

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3 EQUIPMENT UNDER TEST

3.1 Photo documentation of the EuT



Front View



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3.2 Power supply system utilised

Power supply voltage: 12VDC

3.3 Short description of the Equipment under Test (EuT)

The Equipment under test (EUT) is a 390MHz transmitter. The main function of the EUT is acted as a remote control to control the on/off of the garage door. When the button is pressed, the transmitter will transmit the signal by Pulsed Code Modulation to the receiver installed in the garage door to control the garage door close or open. The EUT is powered by one 12V alkaline battery

Number of tested samples:	One		
Serial number:	Not Labelled		
Dimensions:	L: 8.0cm	W: 4.5cm	H: 1.2cm

EuT operation mode:

The equipment under test was operated during the measurement under the following conditions:

- Operation mode 1: Transimitting n

- Operation mode 2: N/A

- Operation mode 3: N/A

EuT configuration:

(The CDF filled by the applicant can be viewed at the test laboratory.)

The following peripheral devices and interface cables were connected during the measurements:

- <u>No</u>	ne	Model :
		Model :

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4 TEST ENVIRONMENT

4.1 Address of the test laboratory

emitel (Shenzhen) Limited Building 2, 171 Meihua Road, Futian District, Shenzhen, 518049 China

FCC Registration No.: 746887

4.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

30-60 %

Temperature:

ire: <u>15-35 ° C</u>

Humidity:

Atmospheric pressure: 86-106 kPa

4.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16-4-2 /11.2003 "Uncertainties, statistics and limit modelling – Uncertainty in EMC measurements" and is documented in the quality system acc. to ISO 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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5 TEST CONDITIONS AND RESULTS

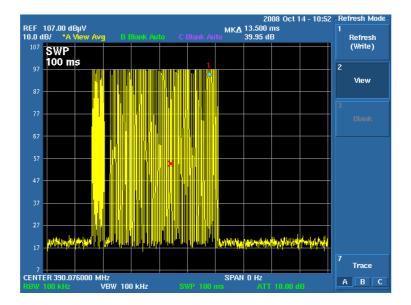
5.1 Average Factor

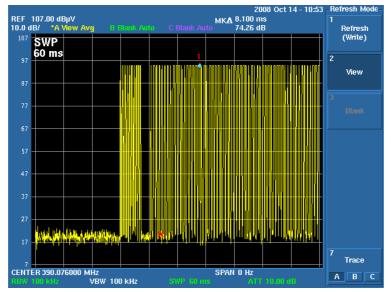
For test instruments and accessories used see section 6.

5.1.1 Description of the test location

Test location: Shield room

5.1.2 Photo documentation of test

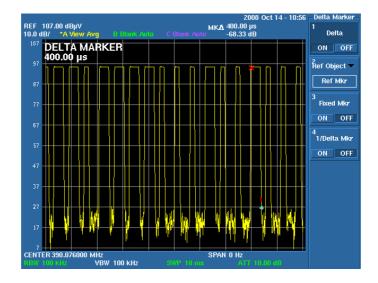


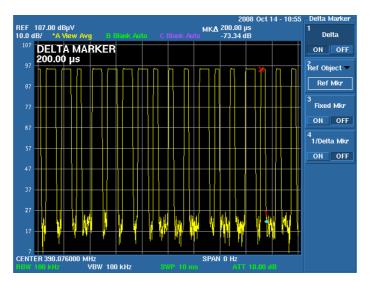


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5.1.3 Test result

Average Factor (Press Switch) =	(0.2*40 + 0.4*33)ms/100ms
=	0.21
=	-13.6dB

Remarks:

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5.2 Radiated Emission

For test instruments and accessories used see section 6.

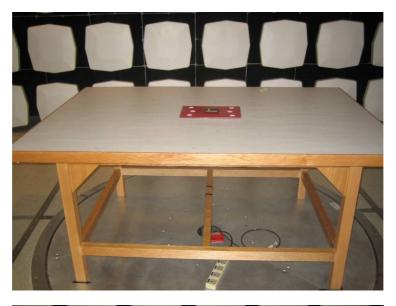
5.2.1 Description of the test location

Test location: Semi-anecholic Chamber

Test distance: 3m

5.2.2 Photo documentation of test

Front view:



Back view



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5.2.3 Test result

Frequency range:	30MHz to 3900MHz

18.7dB

Min. limit margin:

The requirements of section 15.231(b) are FULFILLED.

Remarks:

5.2.4 Test protocol

Worst Case Operation mode:Transmissing modeResult:Pate:Remarks:Date:September 25, 2008Tested by:Davis Wei							Result: PASS
Polari- zation	Frequency [MHz]	Measured PK Value [dBµV]	Correction factor [dB/m]	Result PK value [dBµV/m]	Limit PK [dBµV/m]	Margin PK [dB]	
H H	390.120 780.240	54.1 28.1	18.3 25.4	72.4 54.1	99.2 79.2	-26.8 -25.1	
Polari- zation	Frequency [MHz]	Measured PK Value [dBµV]	Correction factor [dB/m]	Average Factor [dB]	Result AV value [dBµV/m]	Limit AV [dBµV/m]	Margin AV [dB]
H H	390.120 780.240	54.1 28.7	18.3 25.4	-13.6 -13.6	58.8 40.5	79.2 59.2	-20.4 -18.7

Remark: 1) The emissions lower than 20dB below the limit are not measured.

2) PK Detector are used for the measurement.

3) Correction Factor is including the antenna factor and cable factor.

4) Result = Measured data + Correction factor

5) Wooden stuff and plastic tape is used to press the switch for continuous transmission.

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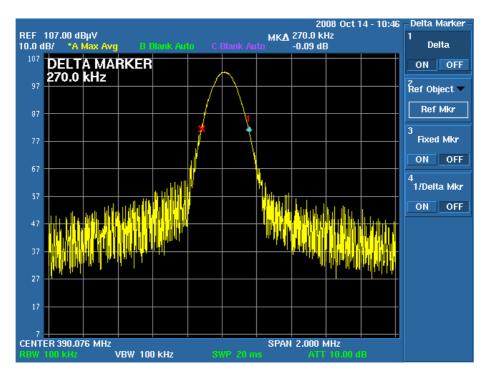


5.3 Bandwidth

5.3.1 Description of the test location

Test location: Shielded Room

5.3.2 Photo documentation of the test



5.3.3 Test result

Measured Occupied Bandwidth (kHz)	Limit (kHz)
270	975

The requirements of section 15.231(c) is FULFILLED

Remarks:

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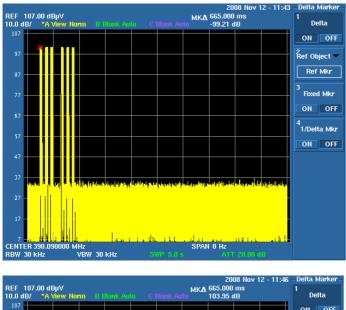
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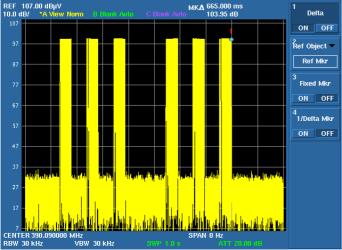
5.4 Provision of Momentary operation

5.4.1 Description of the test location

Test location: Shielded Room



5.4.2 Photo documentation of the test



5.4.3 Test result

The time of stopping transmission after switch releasing (s)	Limit (s)	
0.665	5	
The requeirement of section 15.231(a)(1) is FULFILLED		
Remarks:		
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6 USED TEST EQUIPMENT AND ACCESSORIES

All test instruments used, in addition to the test accessories, are calibrated and verified regularly.

Test Item	Model / Type	Kind of Equipment	Manufacturer	Equipment No.
Radiated Emission	ESPI3 U3772 3142C 3117	EMI Test Receiver Spectrum Analyzer Biconilog Antenna Horn Antenna	Rohde & Schwarz Advantest EMCO ETS Lindgren	04-02/03-06-002 04-02/11-08-001 04-02/24-06-001 04-02/24-07-001
Bandwidth	U3772	Spectrum Analyzer	Advantest	04-02/11-08-001
Momentary operation	U3772	Spectrum Analyzer	Advantest	04-02/11-08-001
Average Factor	U3772	Spectrum Analyzer	Advantest	04-02/11-08-001

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