To: "Timothy R. Johnson" <TRJ@adelphia.net>
Subject: Re: Review of FCC ID: NHVWBJ443

Tim,

Could you confirm the following answer?

>The automatic deactivation in the report shows about 300 ms. Is this for
>manual mode?
---->> Yes, this is manual mode.

>If so, please provide a plot that shows deactivation in < 50 msec as
>specified below for transmissions in response to the 125 kHz signal.
---->> Please find attached file. This is data for transmissions in
response to the 125 kHz signal.

RFEN is a output carrier, and the data is modulated with "FSK". In front of this data, there is about 2mS's signal. This signal is called "anti-collision" and is used for the confirmation which Hand Unit answered. <Since one control unit can register 4 hand unit max, data causes interference if they answer at the same time.>

The above answer is acceptable? I hope the grant is issued with this.

Thank you very much.

Best regards,

Yukie Koyama
:::::::::::::::::::::::::::::
EMC Head Office Division
A-Pex International Co.,Ltd.
4383-326 Asama-cho Ise-shi
Mie-ken 516-0021 JAPAN
TEL +81-596-24-8116
FAX +81-596-24-8124
E-mail:ykoyama@a-pex.co.jp
:::::::::::::::::::::::::::::

--Original Message 2003/02/06 7:20:50--
Yukie,

The automatic deactivation in the report shows about 300 ms. Is this for manual mode?

If so, please provide a plot that shows deactivation in < 50 msec as specified below for transmissions in response to the 125 kHz signal.

Thank You,

Tim

At 03:29 AM 2/5/2003, you wrote:

>Dear Tim,
>
>Thank you very much for your contact on the above application. I make a
>reply as follow:
>
>1. Please see the file "Revised label".
>
>2. As you can see on the timing chart, "16 seconds" mean that the
>transmission is stopped in 16 seconds maximum when Switch is kept pushing.
>When the user release his hand, transmission is stopped within "0.5
>seconds" after he released his hand.
>
>3. Please see the file "page 16 REVISED". Please replace the previous Page
>16 with this.
>
>4. As for the explanation for the data sent by the 312 MHz Tx in response
>to the 125kHz transmission, please see the file "RF response".
>
> >Is the data sent equivalent to the data sent during manual activation?
>--->> Basically, it's equivalent. During the button is pushed, same data
is
>continuously transmitted.
>
> >How long does the device transmit upon receiving the command?
>--->> About 50mS transmission. The longest data transmission is less than
>50mS.
>
>5. Please see the last page of the file "RF response". To improve the
>security, the counter comprising of 20 bits is incremental by one at each
>LF transmission. This bit code indicates "Rolling code"
>
>The RF response format of transmission comprises preamble of 16 bits,
sync
>of 2 bits, start bit of 1 bit, response code of 32 bits, fixed code of
35
>bits and stop bit of 1 bit. Function code and disc code in the
response
>code are not used in this application. The Rolling code" is a part of
an
>encryption data consisting of 20 bits in the response code and
increments
>the data by one from "00000" to "FFFFF" every transmission or
reception.
>When the data reaches "FFFFF", it returns "00000" again. The addition
of

>the rolling code not only improves the transmitted data with regard to
>security performance but also constitutes a part of the transmitted
>recognition code.
>
>1> The transmission of recognition code is not prohibited in the Section
>15.231(a) due to above description with regard to the RF response format.
>2> Since the transmission of recognition code automatically ceases within
>0.5 second after being released the activation of the transmitter in case
>of manual operation, the transmitter operation complies with 15.231(a)(1).
>
>3> Since the transmission activated automatically ceases transmission
>within 0.5 second after activation, the transmitter operation complies with
>15.231(a)(2).
>
>4> Since the transmitter does not periodically operate, the transmitter
>operation complies with 15.231(a)(3).
>
>As a result, this transmitter complies with all the requirements in
>15.231(a).
>
>6. Please see the file "SystemBlock" and "Schematic 2".
>
>7. Please see the file "Revised Form 731".
>
>Best regards,
>
>Yukie Koyama
>:::::::::::::::::::::::::::::
>EMC Head Office Division
>A-Pex International Co.,Ltd.
>4383-326 Asama-cho Ise-shi
>Mie-ken 516-0021 JAPAN
>TEL +81-596-24-8116
>FAX +81-596-24-8124
>E-mail:ykoyama@a-pex.co.jp
>:::::::::::::::::::::::::::::
>
>--Original Message 2003/01/25 3:07:36--
>Yoshiyuki/Yukie,
>
>Attached are comments regarding review of this application. Please
>provide information as soon as possible.
>
>Thank You,
>
>Timothy R. Johnson, NARTE Certified EMC Engineer (No. EMC-002205-NE)
>
>Timothy R. Johnson, NARTE Certified EMC Engineer (No. EMC-002205-NE)

>Examining Engineer
>American TCB, Inc.
>6731 Whittier Ave.
>McLean, VA 22101
>
>email: tjohnson@AmericanTCB.com
>alternate email: TRJ@adelphia.net
>direct number: 404-414-8071
>corporate phone: 703-847-4700
>corporate fax: 703-847-6888
> - ATCB Comments_012403.pdf
(See attached file: Data.pdf)

Data1.pdf