

RE: ADEMCO
FCC ID: CFS8DL5897
15th January, 2002

Dear Tim:

Your recent review of the submitted information on the above referenced application raised some issues. Here is our response to each of the seven issues raised.

1) Please provide a photograph with the shield removed for the attached file, It does not appear that one was provided with the original files.

An additional file (*Internal Photo - Shield Removed.JPG*) containing the required photograph has been uploaded to the ATCB website.

2) The block diagram provided is an overall system diagram Please provide a block diagram for each transmitter or transceiver as required by 2.1033(b)(5).

An additional file (*Block Diagram - Revised*) containing a more detailed Block Diagram has been uploaded to the ATCB website.

3) The FCC label placement is inconclusive. Does the FCC label go in placement 23, 24, or 25?

The FCC label is item 23.

4) Please confirm if the 345 MHz part of the device is a transmitter or transceiver. Most of the support documentation seems to support a transmitter, while the test report mentions transceiver.

The 345 MHz part of the device is a transmitter only.

5) The device appears to have a supervisory and alarm condition transmit modes. Please explain how each of these meet the timing requirements of 15.231 (a) (3)-(4)- Also does the alarm condition continue to transmit or does it only transmits for 3.54 seconds of transmission as specified by the theory of operation?

The supervisory transmission consists of one word, 64 bits long each bit being 312.5 microseconds long repeated five more times (total of six words transmitted). Time between words is 150 milliseconds (worst case). Total length of time for the transmissions equals 0.77 seconds. The supervisory transmission only occurs once every 60 to 85 minutes. (15.231 a(3)).

The alarm transmission is also 64 bits long with the same transmission time as the supervisory but the whole sequence is then repeated two seconds after the first six words. This is the total of 3.54 seconds as stated in the theory of operation. That is all the transmissions that the alarm will put out. It does not continue to transmit alarms. It will continue to transmit supervisory transmissions with the timing as stated above.

6) Also, intentional radiators which are used for security, when activated to signal an alarm during emergencies involving fire, security and safety of life) they may operate during the pendency of the alarm condition. The users manual states that this device may operate and lock into alarm condition if the microwave technology stops sending or receiving. This seems to conflict with the theory of operation (which states alarm conditions are 3.54 seconds of transmission) and also "failure of circuitry" does not meet the intended definition of 15,231 (b) (4). Please explain .

If the microwave supervisory circuit indicates the microwave is not working, an alarm is transmitted. Since the microwave circuitry will normally continue to operate for years, a failure indicates something has happened to the unit, such as an intruder blocking or tampering with the sensor. This would be accepted as an alarm and would be checked immediately.

To clarify, the alarm condition is a status condition and does not refer to the actual transmission signal. When an alarm condition occurs, the 5897-35 transmits it signals (no longer than 3.54 seconds) to the receiver and alarm control panel /keypad which then registers the alarm status condition, displaying it on the main keypad. The alarm condition remains locked until it is cleared via the keypad. In this sense the system is locked into an alarm condition, although the transmitter has only transmitted its alarm signal once.

7) Does the range adjustment (as given in the users manual) affect the transmitter power? Was transmitter at maximum power during the test?

The range adjustment does not affect transmitter power since it is constant. The adjustment only affects the unit's sensitivity.

Hopefully this document and the associated files will adequately address your concerns. Please contact me via doc@elliottlabs if you require any additional information.

Regards



Mark Briggs
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