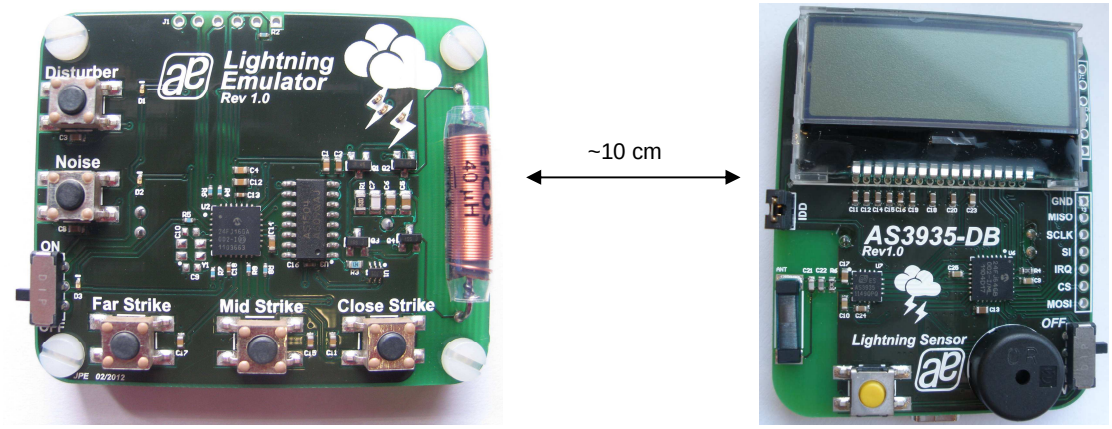
AS3935 Demo Kit

Quick Start Manual

Demo Kit



Procedure

1. Insert the 3V battery (CR2032) in the battery holder on the AS3935 demo board.

2. Insert a 3V battery in the battery holder on the Lightning Emulator.

3. Position the lightning emulator and the AS3935 demo board in such a way that both antennas are in parallel to each other. Keep a distance of 10-15 cm between both boards.

4. Turn on the AS3935 Lightning Sensor via the ON/OFF – switch. When you switch on the board you will see on the LCD the austriamicrosystems logo followed by the LCO and the RCO calibration. After successful calibration the AS3935 goes into sense mode awaiting a lightning.

5. Turn on the Lightning Emulator via the ON/OFF – switch. When turned on, the blue LED will be flashing up once a second.

6. Now you can start pressing the switches, far strike, mid strike and close strike on the Emulator, simulating a lightning which will be detected by the sensor. The display on the AS3935-DB will flash up and highlight “Lightning detected” and the distance to the head of the storm. Furthermore the sensor informs if the storm is approaching or departing via the internal statistical analysis. Lightning will be alarmed with the buzzer signal.

7. The internal statistics can be cleared via a long-press (>1s) on the yellow button of the AS3935-DB.

8. If the Disturber button is pressed, the AS3935 demo board will show “Disturber detected”.

9. If the Noise button is pressed, the AS3935 demo board will show “Noise Level too high”.

10. It is possible to monitor all lightning events in a history. All lightning and its point of time will be stored in a volatile memory. The actual time can be seen on the LCD applying a short press on the yellow button. The time can be adjusted via the GUI, as well as the history read out and deleted.

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This product is intended to be used as an early warning indicator for lightning related storms. It does not guarantee accuracy or predict exact strike locations. By using the part, the user shall be aware that s/he cannot just rely on the indication in order to prevent accidents caused by lightning strikes. austriamicrosystems explicitly states that the user must follow the generally known and recommended instructions on how to behave in the event of lightning strikes. In no event shall austriamicrosystems or its suppliers be liable for any direct, indirect, incidental, special, exemplary or consequential damages (including, but not limited to procurement of substitute goods or services, loss of use, data or profits, or business interruption) arising out of user's disregard to such warnings and instructions.

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