

AHRS G mini



DB9-Female Connection Specifications

The AHRS G mini is a state-of-the-art inertial measurement unit combined with pressure transducers to provide pilots complete primary flight information. Although it is battery powered, pilots can power on the AHRS, turn ON/OFF the battery and recharge the battery through the RS-232 connector. Please follow the instructions below when hard-wiring your aircraft to the AHRS-G mini.

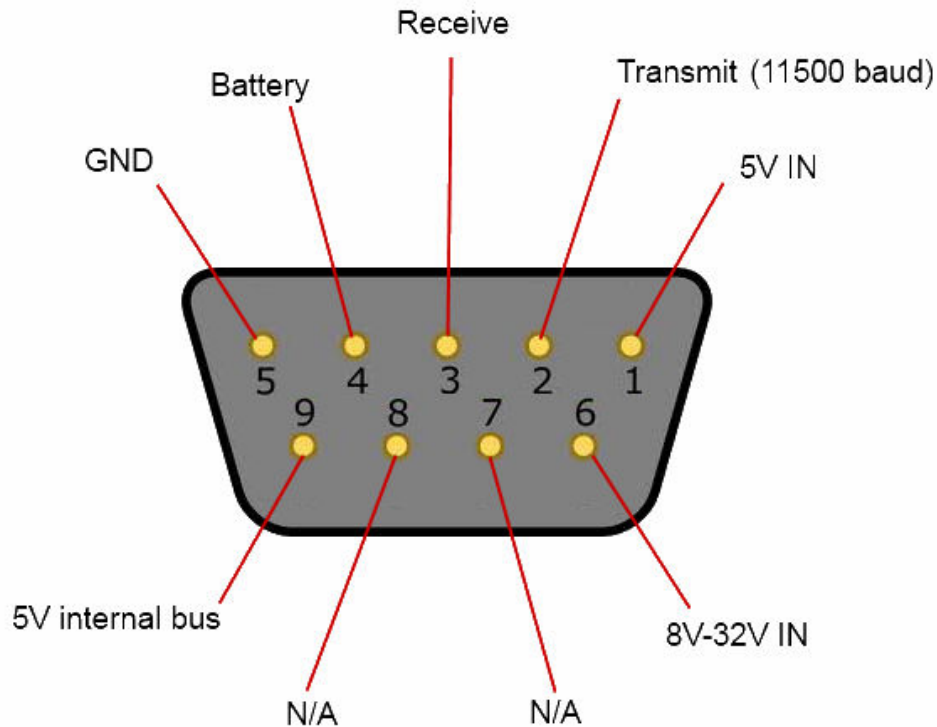


Figure 1 DB9-F Connector

Power Supply

1. Connect PIN5 to GND.
2. Connect power source accordingly to either PIN1 or PIN6 of the RS-232.

| | |
|------|---|
| PIN1 | 5V only! Turns ON AHRS, recharges battery |
| PIN6 | 8V-32V Turns ON AHRS, recharges battery |

3. Make sure the battery switch on the side of the instrument is OFF. Leaving the switch ON will cause the battery to be continuously drained after flight and then recharged on the next flight, reducing battery life.

4. For emergency purposes, if the battery switch on the AHRS is not easily accessible, it is recommended to install an external switch that the pilot can use to control the battery. See “External battery switch” installation instructions below.

NOTE:

DO NOT short circuit PIN1 or PIN6 with any other terminal as this may damage the instrument.

External Battery Switch

There is a standard Polymer Li-ion rechargeable battery inside the AHRS box. The ON-OFF switch on the side of the instrument enables/disables the battery as a power source. The battery must be charged for at least an hour before usage. The mini USB port will always turn ON the AHRS and recharge the battery as long as it is connected to a standard USB2.0 port or a cigarette lighter receptacle even if the battery switch is OFF. Alternatively, power on PIN1 or PIN6 on the RS-232 connector performs the same function as the USB connection.

In order to control the battery through the RS-232, a normally open switch must be used to connect PIN4 (Battery) with PIN9 (5V internal bus).

