# uAvionix

ping200S

Control Application

Cable

The ping200S Control Application allows users to test ping200S functionality by sending commands to the ping200S over RS-232 to from a Windows PC. A serial connection to the ping200S is required.

Cable Assembly: Ping200s can be controlled via serial RS-232 communication by a control head or for testing and development using the provided Ping20XS Control Application.

Terminate/solder the COM TX, COM RX and RS232 ground to DB9 connector or appropriate connector for your application/aircraft.

RS232 Pin Out

Pin #	Signal
1	DCD
2	RX
3	TX
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI
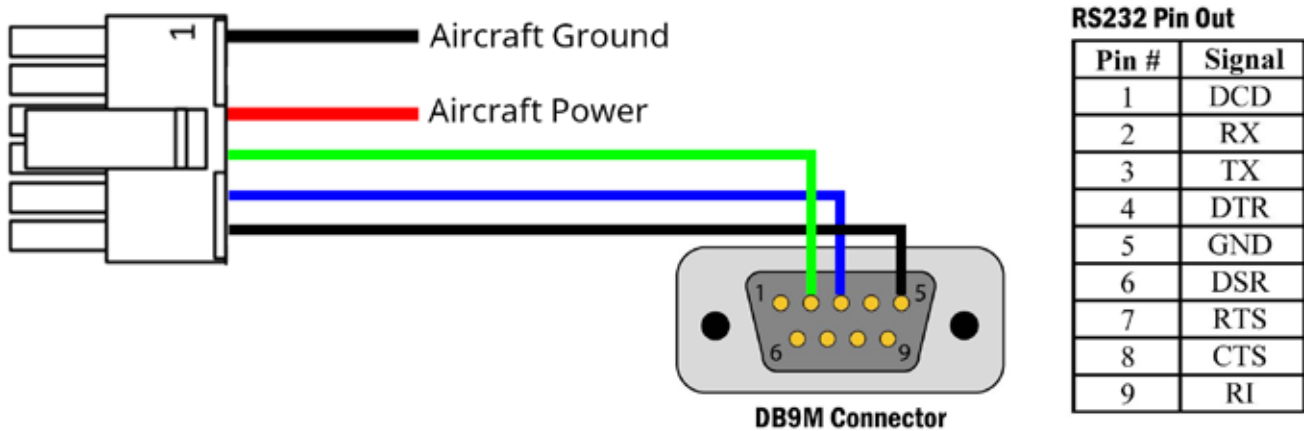
ping200s Pin	Type	Physical	RS-232 Pin (typical)
1	Ground		N/A
2	Ground	Unused	N/A
3	Aircraft Power	11-33V	N/A
4	ping200s COM TX	RS232 57600	2 RS-232 RX
5	ping200s COM RX	RS232 57600	3 RS-232 TX
6	RS232 Ground		5

Launch 2

Download the ping200S control application:
http://www.uavionix.com/downloads/ping200s/ping200scontrol/Ping20XSControl.exe

1. Connect ping200s to the PC.

2. Power ping200S using the supplied power adapter and battery or an alternative power source.
   Never power ping200s without an antenna or a 50 ohm load attached to the SMA connector
   on ping200S.

3. Launch Ping200SControl.exe.

4. Select the correct COM port.

5. Select 57600 for the App Baud.

6. Select the desired protocol. An explanation of each setting can be found on the following
   pages.

7. Click Start

8. The Control Status at the bottom left of the application should change to Started.
   Ping200S Ownship data should populate the Ownship portion of the application.

9. Changes can be made to the ping200S through the application. When the checkbox is toggled
   the changes in the adjacent fields are sent live to the ping200S.

10. Changes will be visible in the ownship display area of the application.
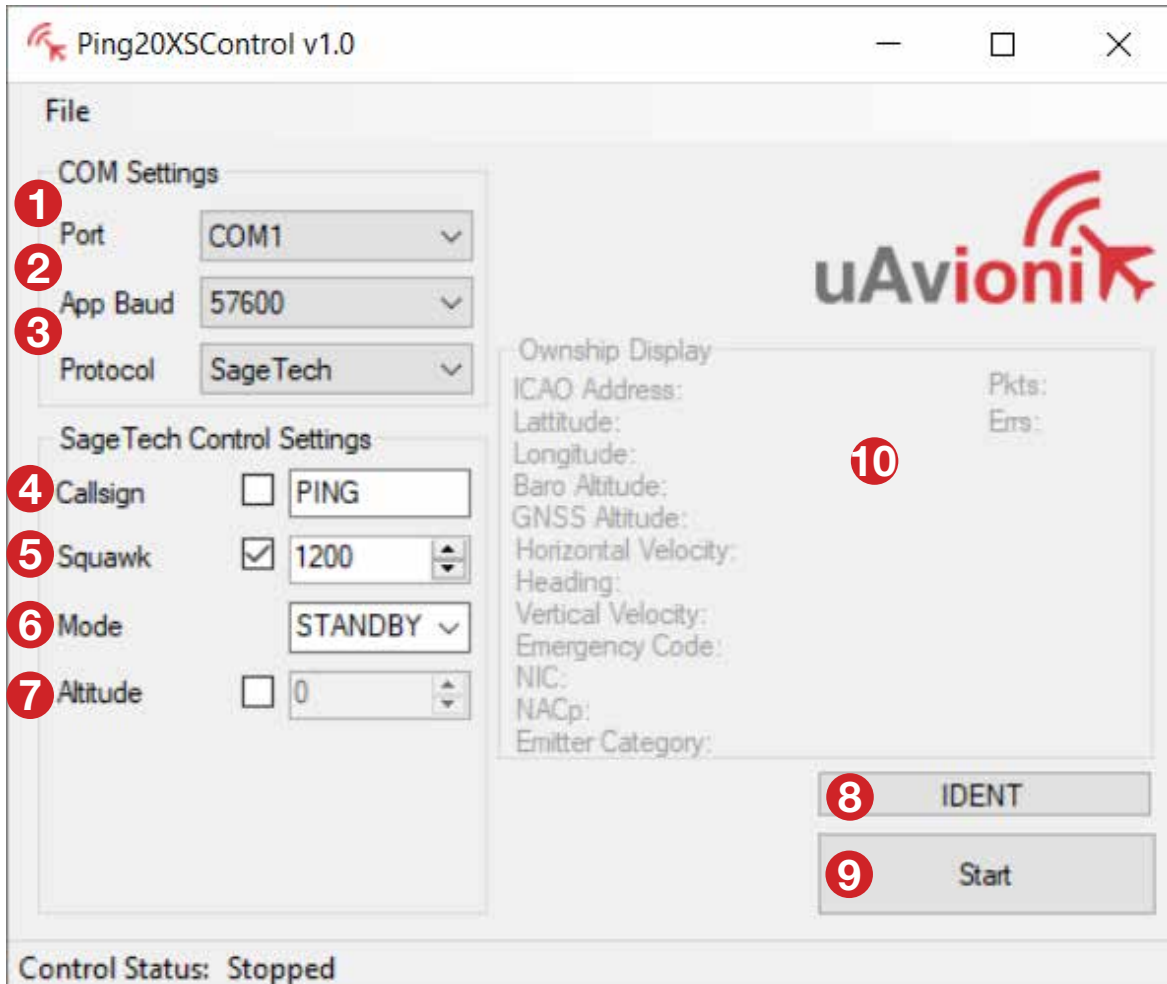
GDL90 Settings

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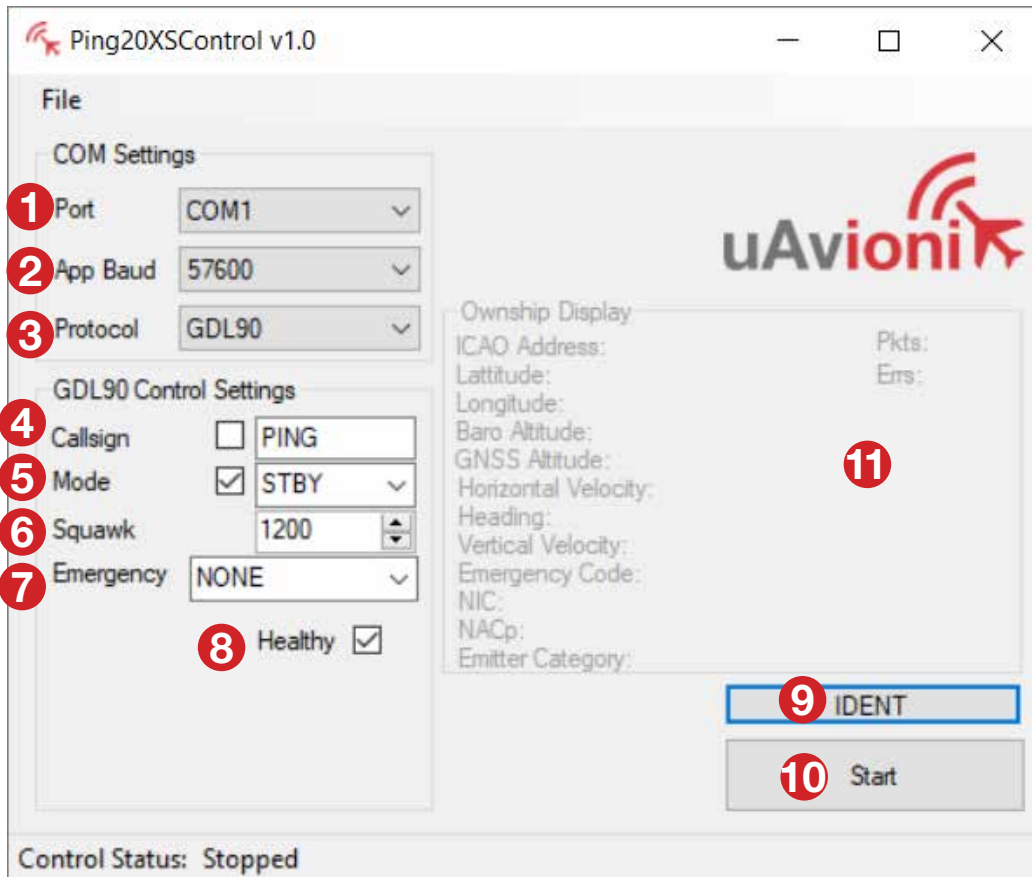
1. **COM Port:** Select the appropriate port for 200s.
2. **App Baud:** Serial Baud rate, select the default value of 57600.
3. **Protocol:** Select the desired communication protocol.
4. **Flight ID:** Enter the assigned Flight ID. Check the box to send the bit to the transponder.
5. **Mode:** Select the transponder operating mode. Available modes: Off, Stby, On, Alt.
6. **Squawk:** 4 digit squawk codes. Entering an emergency code such as 7700 will, cause the appropriate emergency bit to be set automatically.
7. **Emergency:** Select an emergency code. Changes to this field will not auto populate the Squawk code.
8. **Healthy:** Sets the Healthy bit On or Off
9. **Ident:** Sets the transponder to Ident for an 18 second interval.
10. **Start:** Start application control of the Transponder.
11. **Ownship Display:** Displays the current transponder and position information.

SageTech Settings

1. **COM Port:** Select the appropriate port for 200s.
2. **App Baud:** Serial Baud rate, select the default value of 57600.
3. **Protocol:** Select the desired communication protocol.
4. **Flight ID:** Enter the assigned Flight ID. Check the box to send the bit to the transponder.
5. **Squawk:** 4 digit squawk codes are entered here. Entering an emergency code such as 7700 will, cause the appropriate emergency bit to be set automatically.
6. **Mode:** Select the transponder operating mode. Available modes: Off, Stby, On, Alt.
7. **Altitude:** Specify an altitude for all barometric altitude broadcasts.
8. **Ident:** Sets the transponder to Ident for an 18 second interval.
9. **Start:** Start application control of the Transponder.
10. **Ownship Display:** Displays the current transponder and position information.

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