

Mini-AP Wiring Information

Main DB15 Connector & Magnetometer

The Mini-AP comes with a DB15 connector pre-wired with the most commonly used wires. The remote magnetometer uses a DB9 connector and is connected to the Mini using the pins defined below. The colors shown here correspond to the colors in the supplied wiring harness. Notes:

- The supplied wiring harness for the magnetometer is 20 feet long; all other wires are 4 feet long.
- The OAT, serial ports and Trig TT22 connections are all optional.
- OAT is required for true airspeed and density altitude calculations when the Mini does not have a serial connection to a working GRT Horizon or Sport EFIS display unit.
- Use Trig TT22 A and B connections for control and encoder information for the TT22.
- Either of the serial port pairs can be used:
 - to feed altitude encoder information to all transponders except the remote Trig TT22.
 - to connect the Mini-X to any GRT EFIS display unit for limited data sharing.
 - to connect to one or two GRT autopilot servos for lateral modes and altitude hold.
 - to connect an RS-232 navigation radio or GPS.
 - to connect an ARINC-429 module with a pass-through serial port so you don't lose a serial port.

Magnetometer DB9 Pin No.	Mini DB15 Pin No.	Use	Color
	1	Serial 2 Out	YEL
	2	Serial 2 In	YEL/WHT
	3	Trig TT22 A	
	4	Trig TT22 B	
	5	Serial 1 Out	GRN
	6	Serial 1 In	WHT/GRN
	7	Ground	BLK
	8	Power in: 8-30V	RED
M8	9	Mag A	ORG
M9	10	Mag B	ORG/BLK
M5	11	Mag C	BLU
M1	12	Mag D	WHT/BLU
	13	Future Use	
	14	Future Use	
	15	OAT	GRY