Microair Avionics

EC2002
Altitude Encoder

The EC2002 accurately reports the aircraft's altitude over a calibrated altitude range of -1000 to +35,000ft. The altitude output can be via the 10 line Gillham "Gray" code, or a 2 line serial data output.

The EC2002 will have the lowest power requirements of any altitude encoder today. The EC2002 will have a typical current consumption of 10 –125mA.

This makes the EC2002 the logical choice for all battery only operators.

The EC2002's small size and light weight (only 95g / 3.25oz).

The chassis is flanged, and is pre-drilled with mounting holes for easy attachment.

The connections for the EC2002 consist of a DB-15 electrical connector, and a 1/8" NPT fitting for the static air pressure connection. The EC2002 emulates the pin assignments of many commonly used encoders make replacement very simple. The EC2002's serial and parallel altitude outputs make it compatible with all ATC transponders currently available.
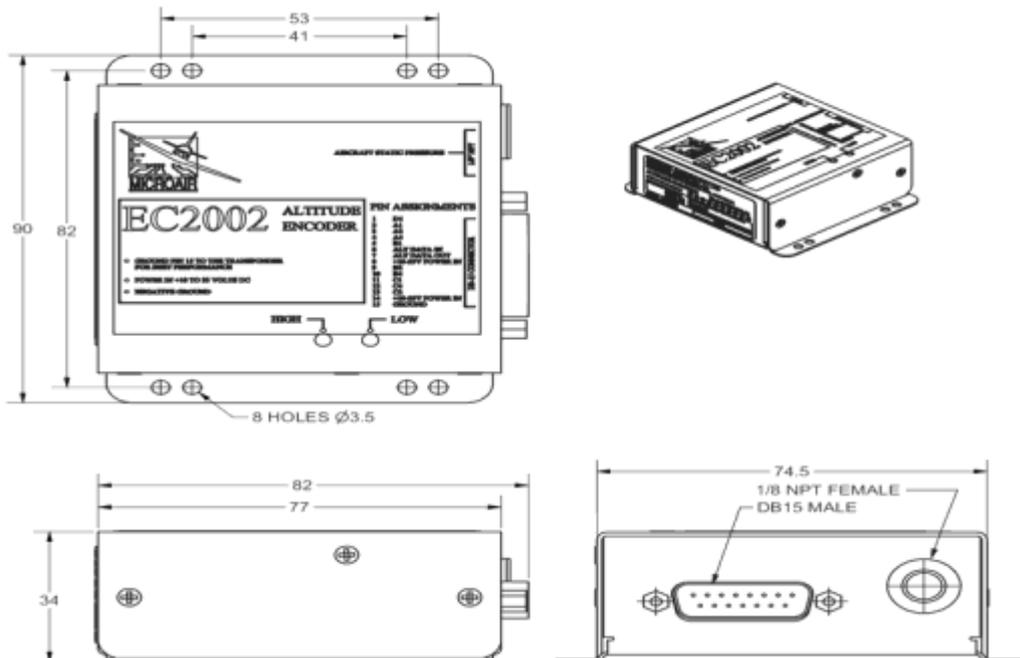
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EC2002
Altitude Encoder

SPECIFICATIONS:

Compliance	TSO C88a	Pending
	SAE AS8003	Compliant
	RTCA DO-160F	Compliant
Dimensions	Length	82mm (3.23")
	Width	90mm (3.54")
	Height	34mm (1.34")
Weight		95 gram (3.25 oz)
Connections	Electrical	DB-15 Sub D miniature
	Pneumatic	1/8" NPT Internal Thread
Power Consumption @ 14v	Without heater element	15mA
	With heater element	125mA
28v	With heater element	200mA
Input Voltage		10 – 33 volts
Code Output	Serial (RS232)	Microair ASCII
		Garmin AT
		Garmin Northstar
		Garmin Trimble
		Magellan
	Parallel	Gillham Code
Altitude Range	Factory Calibrated	-1000 to +35,000 feet
Temperature	Operational	-20 to +55 degrees C
Time to first altitude code	Above 0˚	10 seconds

Pin 1	D4	
Pin 2	A1	
Pin 3	A2	
Pin 4	A4	
Pin 5	B1	
Pin 6	RS232 In	
Pin 7	RS232 Out	
Pin 8	+14V or 28V	Input Voltage
Pin 9	B2	
Pin 10	B4	
Pin 11	C1	
Pin 12	C4	
Pin 13	C2	
Pin 14	+14V or +28V	Input Voltage
Pin 15	Ground	

DB15 CONNECTOR

VIEWED FROM THE SIDE THE
WIRES ARE SOLDERED TO