



T2000 SFL Rev 8 TRANSPONDER



Introduction

The Microair Avionics T2000SFL Transponder is a mode 3A/C aircraft transponder designed to operate in an ATCRBS environment.

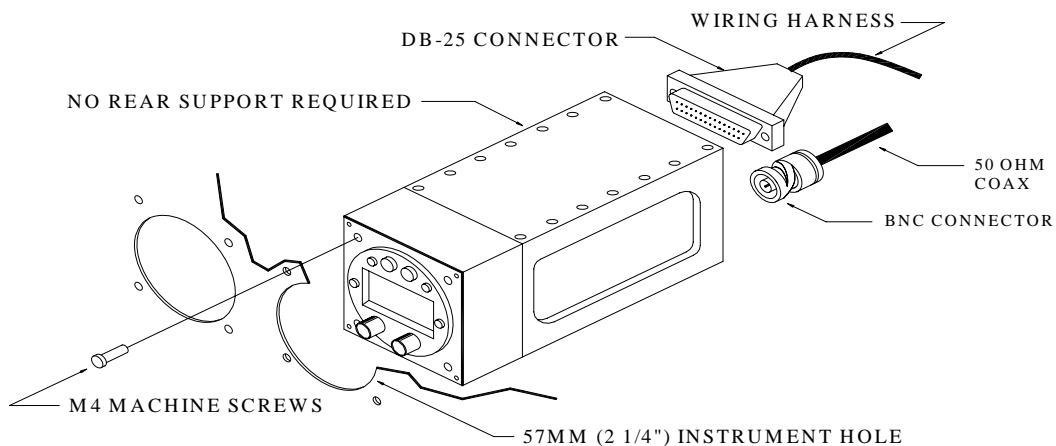
The T2000SFL has been designed to comply with RTCA/DO-144A requirements, and has been tested to DO-160D for environmental and EMC requirements.

The T2000SFL software has been developed and approved under RTCA/DO-178B requirements

Features

The T2000SFL is a small lightweight transponder with low power requirements. The T2000SFL is compatible with any C88a compliant altitude encoder, and offers the following features:

- Serial Altitude Data Input—common protocols self detected
- Serial Altitude Data output—Gillham 100ft converted to Garmin AT Format
- Mode 3 A response (4096 codes)
- Mode C altitude response
- SPI indent response
- Encoder Altitude displayed with Baro/QNH compensations
- Altitude Alert (HI / LO)
- Selectable VSI/Vario Display
- Option to power encoder only in mode C operation



MICROAIR T2000 SFL
PANEL INSTALLATION

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SPECIFICATIONS:

Compliance	ATSO	1C74c	Class 1A
	TSO	C74c	Class 1A
	JTSO	IC74c	Class 1A
RTCA	DO-144	Transponder MOPS	
	DO-160D	Environmental	Level C
	DO-178B Level C	Software	
Transmitter	Frequency	1090MHz	+/-0.2MHz
	Output	200W	Nominal (+/-3W)
	Pulse Width	450nS	+/-25nS
	Rise Time	80nS	
	Fall Time	120nS	
	SWE Tolerance	<5:1	
Receiver (1030MHz)	Dynamic Range	-10dBm	Maximum
		-71dBm	MTL
	Frequency	1030MHz	Centre Frequency
	Pass band	1028-1035MHz	<6dB
Physical Size	Length	160mm	(6.3 in)
	Width and Height	61mm	(2.4 In)
	Weight	600g	(21.1oz)
	Installed Size - Exposed Face	57mm Diameter	(2.25 In)
Operational Modes	Mode 3A	4095 codes	Pilot selectable
	Mode C	-1,000 to + 62,000	Gillham input
		Serial Data	Garmin AT
			Magellan
			Northstar, Garmin
			Trimble, Garmin
			Microair
	SPI	Ident	18 seconds
	Encoder Power	All	Mode A + C
	Alt Display	Alt	Mode C only
Alt Display	Units	Feet/Metres	
QNH	Units	MB/HG	
Power	Input Voltage	10V Min	33V Max
	Input Current	150 - 200 mA	@ 14V
		100 - 150 mA	@ 28V
Temperature	Cold	-20 to +55 ° C	
Altitude	Encoded Range	1,000 feet min	+62,000 feet max