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Microair SFL Mode A/C Transponder and Mode S in Australia

As Air Services Australia continues to roll out Mode S radars

- Melbourne complete
- Coolangatta complete
- Brisbane
- Perth
- Adelaide
- Sydney
- Cairns
- Canberra

the GA and Light Sport Aircraft owners with Mode A/C transponders wonder what affect this will have on them.

There is no mandate from CASA for carriage of Mode S equipment.

So we are safe. We don't have to put our Mode A/C transponders out to pasture!!!

However, anomalies have been identified by Air Services and CASA in some older (Mode A/C) SSR equipment that transverse through Mode S radar zones!

This means that some older transponders are exhibiting uncommanded Mode A codes. Recommendation by CASA is to get your transponder serviced at the earliest opportunity. You can view the Air Worthiness Bulletin on the CASA website: CASA AWB 34-013.

Microair has developed the **T2000SFL Rev 7 Transponder** to combat these issues. If you do not have a Rev 7 we would recommend you contact us about available upgrades. repair@microair.com.au

If you require a transponder visit the website for products and pricing: www.microair.com.au





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- **Below are the definitions of the modes:-**

Mode 3A/C Transponder:-

When a transponder receives a radar signal it sends back a transponder's squawk code (aircraft identification code). This is referred to as Mode 3A or more commonly Mode A.

A transponder code can be paired with pressure altitude information, which is called Mode C. Mode 3A and C are used to help air traffic controllers to identify the aircraft and to maintain separation.

In short Mode 3A/C Transponders supply Air Traffic Control (ATC) and TCAS systems with:-

- * Position
- * Altitude
- * Identity

Mode S Transponder Definition:-

Mode S (Selective) is designed to help avoiding overinterrogation of the transponder (having many radars in busy areas) and to allow automatic collision avoidance. Mode S gives the ability to interrogate a single aircraft at a time. Mode S transponders also reply to Mode A/C interrogations.

The Mode S transponder broadcasts:-

- * aircraft call sign
- * ICAO 24 bit address (unique address)
- * location information (includes level and speed)
- * other air traffic communications