



AIRWORTHINESS ADVICE NOTICE

TYPE AFFECTED: All Sailplanes and Powered Sailplanes

SUBJECT: Non-approved Altimeters - Removal from service.

BACKGROUND: CASA commenced the use of Part 91 and Part 103 of the Civil Aviation Safety Regulations (CASR) on 2 December 2021. Part 91 consolidates all the general operating and flight rules for Australian aircraft. Part 103 consolidates the requirements for sports aviation aircraft. The Part 103 Manual of Standards is yet to be published.

The requirements for equipment for VFR flight by day is tabled at Part 91 Manual of Standards (2020) Chapter 26.06. Australian registered aircraft operating in Australian airspace are now required to have an altimeter calibrated in feet. The adjustable datum / subscale requirement has not changed. This is mirrored in the draft Part 103 Manual of Standards Chapter 6.06.

Further, there have been multiple airspace incursions reported through the SOAR system, some of which are sailplanes fitted with altimeters calibrated in meters and others have altimeters where every rotation of the pointer is three thousand feet. Altimeter units calibrated in meters and altimeters with a three thousand feet per rotation contribute to altimetry errors. Following the introduction of CASRs Part 91 and Part 103, as well as reported airspace incursions, the GFA now requires all altimeters to have a one thousand feet gain for every rotation of the large pointer and calibrated in feet.

ACTION: Altimeters calibrated in meters and of the type having a three thousand feet per rotation are to be withdrawn from service prior to the next annual inspection or by 31 DEC 2022, whichever comes first.

Sailplanes retaining metric or three thousand feet per rotation altimeters until the next annual inspection or by 31 DEC 2022 are to have an entry in the 'Maintenance to be Performed' in the maintenance release stating: *"Altimeter to be replaced with one thousand foot per rotation altimeter"* with a due date of the next annual inspection or 31 DEC 2022 whichever comes first.

Sailplanes retaining altimeters calibrated in meters until the next annual inspection or 31 DEC 2022 require a conversion chart similar to the examples below to be fitted in sight of the pilot, preferably on the instrument panel adjacent to the altimeter if space allows.

SIGNED:

CHIEF TECHNICAL OFFICER

For and on behalf of:

**THE GLIDING FEDERATION
OF AUSTRALIA**

METERS	FEET
300	984
600	1968
900	2952
1200	3937
1500	4921
1800	5905
2100	6890
2400	7874
2700	8858
3000	9843
3300	10827
3600	11811
3900	12795
4200	13780
4500	14764

Table 1: Example Altimeter Conversion Table

FEET	METERS
1000	305
2000	610
3000	914
4000	1219
5000	1524
6000	1829
7000	2134
8000	2438
9000	2743
10000	3048
11000	3351
12000	3658
13000	3962
14000	4267
15000	4572

Table 2: Example Altimeter Conversion Table. This is preferred for sailplanes operating in limited airspace. Rows can be altered to suit airspace boundary altitudes.