ETSO-C106 A1
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European
Aviation
Safety
Agency

European Technical Standard Order (ETSO)

Subject: AIR DATA COMPUTER

1 — Applicability
This ETSO gives the requirements which air data computers that are manufactured on or after the date of this ETSO must meet in order to be identified with the applicable ETSO marking.

2 — Procedures
2.1 — General
Applicable procedures are detailed in CS-ETSO, Subpart A.
2.2 — Specific
None.

3 — Technical conditions
3.1 — Basic
3.1.1— Minimum performance standards set forth in the SAE Aerospace Standard (AS) AS 8002 '*Air Data Computer'*, dated April 1, 1985, as amended by this ETSO:
 — Paragraph 4.2 of document AS 8002 shall be deleted and replaced by the following:
   — Static source error correction (if applicable)
   Unless otherwise noted, outputs may be corrected for static source errors of the specific aircraft model in which the computer is intended to be used.
  — The tolerance of correction value produced from the correction profile (correction curve) residing in the computer shall be the sum of the following:
   A — ± 15 % of theoretical value of correction or equivalent of ± 8.44 Pa (.0025 inch Hg) static pressure, whichever is greater.
   B — Value of correction curve slope times the tolerance of independent variable programming the correction curve.
   When testing corrected parameters (altitude, airspeed or Mach) the nominal value of the parameter at each test point indicated in Tables 1, 3 or 4 shall be adjusted to include the correction value with tolerance limits set per A and B above.
 — Exception TABLE 3, CALIBRATED AIRSPEED: A looser tolerance of ± 6.5 km/h (3.5 knots) may be used at the 148 km/h (80 knots) reference point.

3.1.2 — Environmental standard
See Subpart A, paragraph 2.1.

3.1.3 —Software
See Subpart A, paragraph 2.2.

3.1.4 — Airborne electronic hardware
See CS-ETSO, Subpart A, paragraph 2.3
3.2 — Specific
None.

4 — Marking
4.1 — General
Marking is detailed in CS-ETSO, Subpart A, paragraph 1.2.
4.2 — Specific
None.

5 — Availability of referenced document
See CS-ETSO, Subpart A, paragraph 3.