European Aviation Safety Agency

European Technical Standard Order

Subject: Electronic Flight Instrument System (EFIS) Display

1 - Applicability
This ETSO provides the requirements which electronic flight instrument system (EFIS) displays that are designed and 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 Standard

Note1: The hardware, physical, and optical (ocular) requirements of EFIS displays are addressed in SAE AS8034B. The EFIS display requirements, expressed for a broad set of aircraft functions, are addressed in SAE AS6296.

Note2: This ETSO standard covers basic display standards (SAE AS8034B) and specific displayed functions requirements (SAE AS6296). Specific displayed functions can include, but are not limited to, flight instrumentation, navigation, engine and system status, alerting, surveillance, communication, terrain awareness, weather, and/or other displays. This ETSO standard does not provide standards for head up displays. Two functions covered within SAE AS6296 are required as a minimum. This ETSO does not address sensor requirements. This ETSO standard does not address the display of single function equipment (e.g., airspeed). Sensor requirements and single function equipment requirements are located in their respective ETSO.

3.1.2 - Environmental Standard
See CS-ETSO, Subpart A, paragraph 2.1.
3.1.3 - Software
See CS-ETSO, Subpart A, paragraph 2.2.

3.1.4 - Airborne Electronic Hardware
See CS-ETSO, Subpart A, paragraph 2.3

3.2 - Specific
None.

3.2.1 Failure Condition Classification
See CS-ETSO, Subpart A, paragraph 2.4

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See CS-ETSO, Subpart A, paragraph 2.4

The failure condition classification appropriate for the equipment will depend on the intended use of the equipment in a specific aircraft. The loss of function and malfunction failure condition classification for which the equipment is designed should be documented.

4 - Marking
4.1 - General
Marking as detailed in CS-ETSO, Subpart A, paragraph 1.2.

4.2 - Specific
Per SAE AS6296 Section 3.14, a specific marking is required:
‘See Installation Manual (IM) for Declared EFIS Functions’, or equivalent, on the primary (most prominent) component of the EFIS.

5 - Availability of Referenced Document
See CS-ETSO, Subpart A, paragraph 3.