

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

Standards set forth in SAE AS6296, Electronic Flight Instrument System (EFIS) Display, dated March 2016, and AS8034B, Minimum Performance Standard for Airborne Multipurpose Electronic Displays, dated 27th June 2011.

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

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.