

European Aviation Safety Agency

European Technical Standard Order (ETSO)

SUBJECT: Data Link Recorder Equipment

1 – Applicability

This ETSO gives the requirements that new models of data link recorder systems 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 the applicable sections of EUROCAE document ED-112A 'Minimum Operational Performance Specification for Crash Protected Airborne Recorder Systems' dated September 2013 that pertain to the data link recorder types as defined in table 1 below, except for the following exclusions: Chapters IV-1 and IV-6, and Sections 2-1.1, 2-1.5, 2-1.6, 2-1.11, 2-1.12, 2-3.1, 2-5, 3-1.1, 3-1.2, 3-1.3, 3-1.4, 3-1.5, 3-1.7, 3-4 and Annex IV-B

Recorder Type	ED-112A Reference
Single DLR	Section 2 and Part IV
DLR function in a deployable recorder	Section 2, Section 3 and Part IV
DLR function in a combined recorder	Section 2, Section 4 and Part IV

Table 1: MPS Requirements per recorder type

3.1.2 - Environmental Standard

See CS-ETSO, Subpart A, paragraph 2.1

3.1.3 - Computer Software

See CS-ETSO, Subpart A, paragraph 2.2

3.1.4 Electronic Hardware Qualification.

See CS-ETSO, Subpart A, paragraph 2.3

3.2 - Specific

3.2.1 Failure Condition Classification

See CS-ETSO, Subpart A, paragraph 2.4.

Loss or erroneous behaviour of the function defined in paragraph 3.1.1 of this ETSO has been determined to be a minor failure condition.

Note: The failure classification is driven by the accident investigation need.

4 - Marking

4.1 - General

Marking is detailed in CS-ETSO, Subpart A, paragraph 1.2

4.2 – Specific

See EUROCAE document ED-112A 2-1.16.3.

5 - Availability of Referenced Document

See CS-ETSO, Subpart A, paragraph 3