ETSO-C113
Date : 24.10.03

European Aviation Safety Agency

European Technical Standard Order

Subject: AIRBORNE MULTIPURPOSE ELECTRONIC DISPLAYS

1 - Applicability

This ETSO gives the requirements which airborne multipurpose electronic displays 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 Standard

Standards set forth in the SAE Aerospace Standard (AS) document: AS 8034 „Airborne Multipurpose Electronic Displays“, dated December 30, 1982 as amended by this ETSO in particular, add the following information to paragraph 4.3.3 of AS 8034:

„the following depicts acceptable display colours related to their functional meaning for electronic display systems:

(a) Display feature should be colour coded as follows:

Warnings	Red
Flight envelope and system limits	Red
Cautions, abnormal sources	Amber/Yellow
Earth	Tan/Brown
Scales and associated figures	White,
Engaged modes	Green
Sky	Cyan/Blue

(b) Precipitations and turbulence areas should be coded as follows:

Precipitation up to 4 millimeter per hour (mm/h)		Green
"	4 -12 mm/h	Amber/Yellow
"	12 -50 mm/h	Red
"	above 50 mm/h	Magenta
Turbulence		White or Magenta

(c)Background colour (Grey or other shade) — Background colour may be used to enhancedisplay presentation

Colours must track brightness so that chrominance and relative chrominance separation are maintained as much as possible during day-night operations.“

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.

3.2 - 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.