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 enhance display 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.