ED Decision 2010/010/R 14/12/2010 Annex II ETSO-C6e Date: 21.12.2010

# European Aviation Safety Agency

# European Technical Standard Order (ETSO)

Subject: DIRECTION INSTRUMENT, MAGNETIC (GYROSCOPICALLY STABILIZED)

# 1 – Applicability

This ETSO gives the requirements which new models of direction instruments, magnetic (gyroscopically stabilized) 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 General
- 3.1.1 Minimum Performance Standard

Standards set forth in the SAE Aerospace Standard (AS) document: AS-8013A, "Direction Instrument, Magnetic (Gyroscopically Stabilized)", dated September 1996, as modified by Appendix 1 of this ETSO.

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

Failure of the function defined in paragraph 3.1.1 of this ETSO has been determined to be a major failure condition.

#### 4 - Marking

4.1 – General

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

## 4.2 - Specific

None, Clarification: SAE AS 8013A paragraph 3.15 is not applicable.

# 5 - Availability of Referenced Document

See CS-ETSO Subpart A paragraph 3.

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#### APPENDIX 1

#### MODIFICATION TO MPS FOR DIRECTION INSTRUMENT, MAGNETIC (GYROSCOPICALLY STABILIZED)

Modify AS8013A as follows:

SAE AS8013A reference:	Replace with:
Section 3.4:	Except for small parts (knobs, fasteners,
Except for small parts (such as knobs,	seals, grommets, and small electrical
fasteners, seals, grommets, and small	parts) that do not contribute significantly
electrical parts) that would not contribute	to the propagation of a fire, all materials
significantly to the propagation of a fire,	must be self-extinguishing when tested
all materials must be self-extinguishing	according to EASA CS 25.869(a). See
when tested in accordance with the	further to Appendix F, Part I (b)(2),
requirements of Federal Aviation	Specimen configuration, for current
Regulation 25.1359 (d) and Appendix F	requirements.
thereto, with paragraph (b) of Appendix F	
or may be configured as used.	