

European Aviation Safety Agency

European Technical Standard Order (ETSO)

Subject: **MANIFOLD PRESSURE INSTRUMENTS**

1 - Applicability

This ETSO gives the requirements which manifold pressure instruments 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

Standard set forth in the SAE Aerospace Standard (AS) document: SAE AS 8042 from December 1, 1985, unless otherwise specified by **Appendix 1** of this ETSO.

3.1.2 - Environmental Standard

The Manifold Pressure Instruments must be tested according to Section 7 of SAE AS 8042 and EUROCAE ED-14E (RTCA DO-160E) "*Environmental Conditions and Test Procedures for Airborne Equipment*" from March 2005.

3.1.3 - Computer Software

If the Manifold Pressure Instruments includes a digital computer, the software must be developed according to EUROCAE ED-12B (RTCA DO-178B), "*Software Considerations in Airborne Systems and Equipment Certification*", dated December 1992.

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.

APPENDIX 1.

MINIMUM PERFORMANCE STANDARD FOR MANIFOLD PRESSURE INSTRUMENTS

This appendix lists EASA modifications to the MPS for Manifold Pressure Instruments.

The applicable standard is SAE AS 8042, Manifold Pressure Instruments, dated December 1, 1985.

1. Manifold Pressure Instruments are not required to meet the requirements in SAE AS 8042 paragraphs 3.1, 3.2, and 3.3.
2. Replacement of SAE AS 8042 paragraph 3.24.2 (Fire Hazards) by:
"Except for small parts (such as fasteners, grommets, knobs, seals, and small electrical parts) that would not contribute significantly to the propagation of a fire, all material used must be self-extinguishing when tested in accordance with the requirements of CS 25.1713(c) and the applicable portions of Part I, Appendix F."