

Schedule 28 ATSO-C1007b — flight data recorder interface unit

(subsection 13.2 (1), table, item 8)

1 Application

This Schedule applies to an article manufacturer in relation to a flight data recorder interface unit that will be mounted on an airframe of an aircraft and function as the interface between analogue aircraft systems and digital flight recorders.

2 Definitions

In this Schedule:

ARINC 717-15 means the Aeronautical Radio Inc. ARINC Characteristic 717-15 *Flight Data Acquisition and Recording System*, as existing from time to time.

FDRIU means flight data recorder interface unit.

RTCA/DO-160F means RTCA Document RTCA/DO-160F called *Environmental Conditions and Test Procedures for Airborne Equipment*, or a later version of RTCA Document DO-160, as existing from time to time.

RTCA/DO-178C means RTCA Document RTCA/DO-178C called *Software Considerations in Airborne Systems and Equipment Certification*, as existing from time to time.

RTCA/DO-254 means RTCA Document RTCA/DO-254 called *Design Assurance Guidance for Airborne Electronic Hardware*, as existing from time to time.

3 Minimum performance standard — system requirements

- (1) An FDRIU must process the parameters mentioned in column 1 of items 1 to 6 of the following table.
- (2) An FDRIU may also process the parameters mentioned in column 1 of items 7 to 20 of the table.
- (3) Each parameter that is processed by the FDRIU must meet the following requirements:
 - (a) the range over which the parameter is to be recorded mentioned in column 2 of the table;
 - (b) the accuracy of recording for the parameter mentioned in column 3 of the table;
 - (c) the maximum interval in seconds between recorded readings of the parameter mentioned in column 4 of the table.