

RTCA, Inc.
1828 L Street, NW, Suite 805
Washington, DC 20036-5133 USA

**Minimum Operational Performance Standards
(MOPS) for Airborne Distance Measuring
Equipment (DME) Operating Within the Radio
Frequency Range of 960-1215 MHz**

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Telephone: 202-833-9339

Facsimile: 202-833-9434

Internet: www.rtca.org

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F O R E W O R D

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1.0 PURPOSE AND SCOPE

1.1 Introduction

This document contains minimum operational performance standards for airborne distance measuring equipment (DME) operating within the radio frequency range of 960-1215 MHz. These standards contain system characteristics that should be beneficial to the various users of the system as well as designers, manufacturers and installers.

Section 1.0 of this document provides information needed to understand the rationale for equipment characteristics and requirements stated in the remaining sections. It describes typical equipment applications and operational goals, and is the basis for the standards stated in Sections 2.0 through 4.0. Definitions and assumptions essential to proper understanding of this document are also provided in Section 1.0.

Section 2.0 contains the minimum performance standards for the equipment. These standards define required performance under standard operating conditions and stressed physical environmental conditions. The document also details recommended bench test procedures necessary to demonstrate compliance.

Section 3.0 describes the performance required of the installed equipment. Tests for the installed equipment are included when performance cannot be adequately determined through bench testing.

Section 4.0 describes the operational performance characteristics for equipment installations and defines conditions and tests that will assure the user that the equipment will perform safely and reliably in the expected operational environment.

Compliance with these standards by manufacturers, installers and users is recommended as one means of assuring that the equipment will satisfactorily perform its intended function(s) under all conditions normally encountered in routine aeronautical operations.

It is recognized that any regulatory application of this document in whole or in part is the sole responsibility of appropriate governmental agencies.

Since the measured values of equipment performance characteristics may be a function of the measurement method, standard test conditions and methods of test are recommended in this document.

This document considers a configuration of airborne equipment encompassing: An antenna system, transmission lines, DME interrogator, interrogator control unit and interfaces with aircraft displays/systems. Additional functions and components that refer to expanded capabilities are identified as optional features.