

# Preface

This manual provides technical information on the Radar Control Processor (RCP8) .

## About This Manual

This manual is used primarily by engineers for troubleshooting or by users interested in understanding the use, the configuration, and the data formats used by the RCP8.

Chapter 1, *Introduction and Specifications*, describes the major features of the RCP8 processor and gives its technical specifications.

Chapter 2, *Hardware Installation*, describes the hardware installation and configuration of input and output signals, including the motor drive and tachometer signals.

Chapter 3, *TTY Menu Control and Monitoring*, presents the operation of the RCP8 via its local TTY menus.

Chapter 4, *TTY Setup Menus*, further describes the use of the local TTY menus to setup the complete software environment, including all parameters for the digital velocity and position antenna servos.

Chapter 5, *Theory of Servo Operation*, is a mathematical description of the digital servos, including extensions to moving platform stabilization.

Appendix A, *Software Installation*, shows how to install or upgrade the RCP8 software.

Appendix B, *RCP8 Packaging*, includes drawings and specifications for the chassis and the Pin-Assignments for a standard unit.

Appendix C, *Serial Control Formats*, lists the serial line data formats normally used by the host computer to control the RCP8 and the antenna.

We encourage you to send any comments, suggestions, and/or corrections to:

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## Documentation Conventions

The following conventions are used throughout this manual:

**prompt**      Some features of the RCP8 operate by displaying questions and waiting for you to type an answer. The text of prompts is displayed in bold, monospaced type.

**command**      Commands are also printed in bold, monospaced type.



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This margin icon indicates a note that is important to the reader.



This margin icon indicates a caution or warning to the reader.