

# Preface

This manual provides technical information on the Radar Control Processor (RCP02) .

## 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 RCP02.

Chapter 1, *Introduction and Specifications*, describes the major features of the RCP02 processor and gives its technical specifications.

Chapter 2, *Installation and Operation*, describes the jumper settings, and configuration of input and output signals, including the motor drive and tachometer waveforms. The operation of the RCP02 via its local TTY is also presented.

Chapter 3, *Configuring the RCP02*, further describes the use of the local TTY to setup the complete software environment, including all parameters for the digital velocity and position antenna servos.

Chapter 4, *Theory of Servo Operation*, is a mathematical description of the digital servos, including extensions to moving platform stabilization.

Appendix A, *Connector Specifications*, shows in tabular format the pinout of the back panel and board connectors.

Appendix B, *RCP02 Chassis*, includes drawings and specifications for the chassis.

Appendix C, *Serial Control Formats*, lists the serial line data formats normally used by the host computer to control the RCP02 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 RCP02 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.