

PDHX15 & PDHX15D Series Drive User Guide

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Part No: 1600.195.01 20 Jan 1995

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IMPORTANT INFORMATION FOR USERS

Installation and Operation of Digiplan Equipment

It is important that Digiplan motion control equipment is installed and operated in such a way that all applicable safety requirements are met. It is your responsibility as a user to ensure that you identify the relevant safety standards and comply with them; failure to do so may result in damage to equipment and personal injury. In particular, you should study the contents of this user guide carefully before installing or operating the equipment.

Under no circumstances will the suppliers of the equipment be liable for any incidental, consequential or special damages of any kind whatsoever, including but not limited to lost profits arising from or in any way connected with the use of the equipment or this user guide.



SAFETY WARNING

High-performance motion control equipment is capable of producing rapid movement and very high forces. Unexpected motion may occur especially during the development of controller programs. **KEEP WELL CLEAR** of any machinery driven by stepper or servo motors. Never touch it while it is in operation.

High voltages exist within enclosed units, on rack system backplanes (motherboards) and on transformer terminals. Operators must be denied access to these areas. Service personnel must keep clear of these areas when power is applied to the equipment.

The information in this user guide, including any apparatus, methods, techniques, and concepts described herein, are the proprietary property of Parker Digiplan or its licensors, and may not be copied, disclosed, or used for any purpose not expressly authorised by the owner thereof.

Since Digiplan constantly strives to improve all of its products, we reserve the right to modify equipment and user guides without prior notice. No part of this user guide may be reproduced in any form without the prior consent of Digiplan.

CONTENTS

List of Figures	iii
List of Tables.....	iii
Contents of This Manual.....	v
Developing Your Application.....	v
Chapter 1. INTRODUCTION.....	1
Product Description.....	1
Positioner Features	2
Positioner Status LED Indicator	3
Positioner Specification.....	5
Chapter 2. INSTALLATION.....	7
Power Connections.....	7
Wiring Guidelines.....	7
Motor Selection	7
Motor Connections	9
Positioner Connections	14
Positioner Signal Types.....	15
Positioner Signal Connections.....	18
In Position Output	18
Jog Inputs.....	19
Jumper Link and Connector Layout.....	20
Jumper Links	21
Thumbwheel Interface	22
RP240 Connections.....	27
Drive Switch Settings	28
Mechanical/ Environmental	30
Enclosure Considerations.....	30
Environmental	31
Installation Considerations	31
Chapter 3. BASIC MOTION CONTROL CONCEPTS.....	33
Motion Profiles.....	33
Preset Moves.....	33
Incremental Preset Moves.....	33
Absolute Preset Moves.....	33
Continuous Moves.....	34
Registration Moves.....	34
Motion Profiles.....	36
Encoder Following.....	38
Buffered Clock Mode.....	40
Program Storage.....	41
Write Protection.....	41

Motion Program Selection	41
Parameter Ranges.....	41
Chapter 4. COMMUNICATING WITH THE POSITIONER	43
Command Interface.....	43
Communication Parameters.....	43
Address Selection	44
Interactive operation with a PC/PLC.....	47
Interactive Programming.....	48
Programming With the RP240.....	52
Prompting an Operator or Displaying Information	52
Processing Information.....	56
Chapter 5. PROGRAMMING	67
Communicating with the Positioner	67
Multiple Positioner Commands.....	69
Programming Modes	70
Command Types	72
Start Move Commands.....	72
Using the Evaluation Commands.....	75
DETAILED COMMAND LIST.....	97
Chapter 6. MAINTENANCE & TROUBLESHOOTING	219
Drive Maintenance.....	219
Motor Maintenance	219
Drive Maintenance.....	219
Troubleshooting.....	219
LED Display Messages.....	222
RS-232C Problems.....	222
Software Debugging Tips	223
Returning the System	224
Appendix A	227
Sample Comms Program.....	227
Index	233

List of Figures

Figure 1-1.	PDHX15 Series.....	2
Figure 2-1.	Drive Motor Connections.....	9
Figure 2-2.	Signal Connections.....	14
Figure 2-3.	Signal Type A Input Circuit.....	16
Figure 2-4.	NPN and PNP Output Boards.....	17
Figure 2-5.	In Position Indicator Connections.....	18
Figure 2-6.	JOG Switch Connections.....	19
Figure 2-7.	Connector and Link Positions.....	20
Figure 2-8.	Jumper Link Access.....	22
Figure 2-9.	Connections to TM8 Thumbwheel Module.....	25
Figure 2-10.	Connections to Dual TM8 Thumbwheel Modules.....	26
Figure 2-11.	Connections to RP240 Operator Panel.....	27
Figure 2-12.	PDHX15 Drive Card Front View.....	28
Figure 2-13.	Case Dimensions.....	30
Figure 3-1.	Example Registration Move.....	35
Figure 3-2.	Triangular Profile.....	37
Figure 3-3.	Trapezoidal Profile.....	37
Figure 4-1.	RS232 Input.....	44
Figure 4-2.	RS-232C Daisy Chain Configuration.....	46
Figure 4-3.	Status LEDs.....	52
Figure 5-1.	Speed Change Mode.....	71
Figure 5-2.	Positive Homing.....	79
Figure 5-3.	Negative Homing.....	79
Figure 5-4.	System Used in Example Programs.....	80
Figure 5-5.	Input Example.....	84
Figure 5-6.	Output Hardware Modules.....	86
Figure 5-10.	Complex Velocity Profile Using MQ Mode.....	144

List of Tables

Table 1-1.	Status LED Indications.....	3
Table 1-2.	PDHX15 Series Drive Specifications.....	4
Table 1-3.	Positioner Specification.....	5
Table 2-1.	Motor Connection Data - Windings in Series.....	10
Table 2-2.	Motor Connection Data - Windings in Parallel.....	11
Table 2-3.	PDHX15 Current Drive Settings for Compumotor 'S' and.....	12
Table 2-4.	PDHX15 Current Drive Settings for Compumotor.....	13
Table 2-5.	PDHX15 Current Drive Settings for Digiplan 'SM' and.....	13
Table 2-6.	Positioner Signal Types.....	15
Table 2-7.	5V and 24V Operation for Signal Type A Inputs.....	16

Table 2-8.	Signal Type A Configuration Link Settings.....	16
Table 2-9.	Signal Type B Output Board Characteristics.....	17
Table 2-10.	Jumper Link Functions.....	21
Table 2-11.	Drive Switch Settings.....	28
Table 2-12.	Step Resolution.....	29
Table 2-13.	Peak Current Settings.....	29
Table 3-1.	Parameter Ranges.....	41
Table 4-1.	Positioner Address Selection.....	44

How To Use This Manual

This manual is designed to help you install, develop and maintain your system. Each chapter begins with a list of specific objectives that should be met after you have read the chapter. This section is intended to help you find and use the information in this manual.

This user guide contains the following information:

***Chapter 1:
Introduction***

This chapter provides a description of the drive/positioner and gives a brief account of its specific features.

***Chapter 2:
Installation***

This chapter details the input and output signal connections to the drive/positioner. It also describes the signal characteristics and shows examples of interfacing circuit arrangements.

***Chapter 3: Basic
Motion Control
Concepts***

For those unfamiliar with motion control systems, this chapter explains the basic concepts. It will help you to become familiar with the system and provide a basis for understanding the use of the command set.

***Chapter 4:
Communicating with
the Positioner***

This chapter will enable you to set up communications with the positioner and describes its use with the RP240 Module.

***Chapter 5:
Programming***

Chapter 5 lists the motion control commands of the positioner. It describes their use and explains the variable parameters associated with them. You should study this chapter before starting to program the system.

***Chapter 6
Maintenance &
Troubleshooting***

This chapter give a guide to troubleshooting drive, positioner and motor problems.

Before you attempt to develop and implement your application, you should consider the following:

- Recognize and clarify the requirements of your application. Clearly define what you expect the system to do.
- Follow the guidelines and instructions outlined in this user guide. **Do not skip any steps or procedures.** Proper implementation can be ensured only if all procedures are completed in the proper sequence.

