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PDHX15 & PDHX15D
Series Drive
User Guide

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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 theses 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.

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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.

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