

# RL01/RL02 User Guide



# **RL01/RL02 User Guide**

1st Edition, December 1978  
2nd Printing (Rev), September 1979  
3rd Printing (Rev), June 1980  
4th Printing (Rev), October 1980  
5th Printing (Rev), September 1981

Copyright © 1981 by Digital Equipment Corporation

All Rights Reserved

The material in this manual is for informational purposes and is subject to change without notice.

Digital Equipment Corporation assumes no responsibility for any errors which may appear in this manual.

Printed in U.S.A.

**This document was set on DIGITAL's DECset-8000 computerized typesetting system.**

- **Class A Computing Devices:**

**Notice:** This equipment generates, uses, and may emit radio frequency energy. The equipment has been type tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such radio frequency interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference in which case the user at his own expense may be required to take measures to correct the interference.

The following are trademarks of Digital Equipment Corporation, Maynard, Massachusetts:

DEC	DECnet	OMNIBUS
DECUS	DECsystem-10	OS/8
DIGITAL	DECSYSTEM-20	PDT
Digital Logo	DECwriter	RSTS
PDP	DIBOL	RSX
UNIBUS	EduSystem	VMS
VAX	IAS	VT
	MASSBUS	

# CONTENTS

		Page
<b>CHAPTER 1</b>	<b>INTRODUCTION</b>	
1.1	PURPOSE AND SCOPE .....	1-1
1.2	REFERENCE DOCUMENTS .....	1-1
1.3	SUBSYSTEM DESCRIPTION .....	1-1
1.3.1	RL01/RL02 Disk Drive .....	1-2
1.3.2	RL Controllers .....	1-2
1.3.2.1	RL11 Controller Description .....	1-2
1.3.2.2	RLV11 Controller Description .....	1-3
1.3.2.3	RL8A Controller Description .....	1-3
1.3.2.4	RLV12 Controller Description .....	1-3
1.3.3	RL01K/RL02K Disk Cartridge .....	1-4
1.3.3.1	Interchangability .....	1-4
1.3.3.2	Sector Format .....	1-4
1.4	SECTOR LOCATION .....	1-7
1.5	BAD SECTOR FILE .....	1-8
1.6	RL01/RL02 SPECIFICATIONS .....	1-10
<b>CHAPTER 2</b>	<b>INSTALLATION</b>	
2.1	SITE PREPARATION AND PLANNING .....	2-1
2.1.1	Environmental Considerations .....	2-1
2.1.1.1	Cleanliness .....	2-1
2.1.1.2	Space Requirements .....	2-1
2.1.1.3	Floor Loading .....	2-1
2.1.1.4	Heat Dissipation .....	2-1
2.1.1.5	Acoustics .....	2-2
2.1.1.6	Temperature .....	2-2
2.1.1.7	Relative Humidity .....	2-2
2.1.1.8	Altitude .....	2-2
2.1.1.9	Power and Safety Precautions .....	2-2
2.1.1.10	Radiated Emissions .....	2-2
2.1.1.11	Attitude/Mechanical Shock .....	2-3
2.1.2	Options .....	2-3
2.1.3	AC Power Requirements .....	2-5
2.1.3.1	Standard Applications .....	2-5
2.1.3.2	Optional Applications .....	2-5
2.1.4	Installation Constraints .....	2-7
2.1.5	Grounding Requirements .....	2-7
2.2	AC CABLING .....	2-8
2.3	INSTALLATION – GENERAL .....	2-10