

6877-1 Goreway Drive
Mississauga, Ontario
Canada L4V 1L9

Tel: (905) 677-5533
Fax: (905) 677-5030
Web: <http://www.rmsinst.com>
e-mail: rms@rmsinst.com

REMOVABLE HARD DISK CARTRIDGE DRIVE



- * **SCSI Interface**
- * **Fast Access Time**
- * **Removable Cartridge Media**
- * **Up to 200 Mbyte/cartridge capacity**
- * **Rugged Hard Disk Cartridge**
- * **Ideal for field work stations**
- * **When used with RMS Instruments' Data Systems, the format is MS-DOS***
compatible

The RHD40 is a rugged and reliable data recording system, with a removable hard disk cartridge drive that uses the Small Computer System Interface (SCSI). When used in conjunction with one of RMS Instruments' Data Acquisition Systems, real-time data recording may be achieved on data files that are written in MS-DOS* compatible format. This allows immediate access to the recorded data using any PC equipped with a SCSI adapter card.

Removable hard disk cartridge technology combines some of the best features of flexible-cartridge systems and of removable disk drive systems. The removable Winchester cartridge packages one rigid platter inside of a plastic case. As is the case with removable disk drives, when the cartridge is inside the drive the read/write heads are positioned a few microns above the surface of the platter, thus avoiding problems of wear-out and durability inherent in flexible-cartridge systems; however, in contrast to removable disk drives, the cartridge contains only a platter, and does not include the expensive and fragile read/write heads. When the cartridge is inserted in the drive, a sliding mechanism in the side of the cartridge opens to allow the heads to be positioned over the platter.

The removable hard disk cartridge system in the RHD40 offers capacities up to 200 Mbytes per cartridge (circa 1996 — consult RMS Instruments for the latest capacities available). Cartridges are 5.4 x 5.4 inches, and have a write protect switch similar to that of 3.5 inch floppy disks. The platter is made of plated medium using sputtered graphite recording material, and has a fluoro-carbon coating which helps prevent data loss in case of a head crash. The drive is also (double) shock-mounted in the RHD40 chassis to allow operation in harsh environments.

The unit is packaged in a 19-inch rack mountable enclosure, and is available in AC or DC powered versions. The DC powered unit operates over a wide input range (12 - 28 VDC \pm 10%), making it ideal for mobile applications.

* MS-DOS - Trademark of Microsoft Corp.

SPECIFICATIONS

SIZE: 19 in. W x 3.5 in. H x 12 in. D
(48.26 x 8.89 x 30.48 cm)

WEIGHT: 9.5 pounds (4.3 Kg)

POWER REQUIREMENTS: RHD40-1 12-28 VDC \pm 10%
RHD40-2 115 or 220 VAC
35 W maximum

INTERFACE: SCSI II

ENVIRONMENT:

Operating Temp: +5 to +50°C
Storage Temp: -40 to +70°C
Relative Humidity: 8 - 90% (N.C.)
Altitude: -1,000 to 10,000 ft.

Vibration (single shock mount):

Operating: 0.036 in dbl. ampl. (5 - 8.2 Hz)
0.25G p-p (8.2 - 500 Hz)

Non-operating: 0.4 in dbl. ampl. (2 - 7 Hz)
2.0G p-p (7 - 500 Hz)

Shock (single shock mount):

Operating: 2.0G (1/2 sine @ 11 msec)
Non-operating: 40.0G (1/2 sine @ 11 msec)

CARTRIDGE DIMENSIONS: 5.375 in. x 5.375 in. x 0.5 in. H
(13.65 x 13.65 x 1.27 cm)

ACCESS TIME: Less than 25 msec.

DATA TRANSFER RATE: 1.25 Mbytes/sec (burst)

DRIVES SUPPORTED/CAPACITY:
(circa 1996; consult RMS Instruments for the latest)

Drive Model No.	Cartridge type and capacity	
	SQ2000 (200 MB)	SQ400 (44 MB)
SQ555	No	Yes
SQ5200C	Yes	Yes

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE