



MMR Technologies, Inc.

DO I NEED A COMPUTER WITH MY JOULE THOMSON COOLING SYSTEM?

COMPUTER REQUIREMENTS

The MMR Technologies' cryogenic cooling systems must be interfaced with a computer when the system is placed under software control or if data acquisition is to be made through the temperature controller. Software to control MMR Technologies instrumentation will work on any computer that is PC-compatible adapted to the following specifications:

TABLE 1: Computer specifications required to operate MMR Technologies instrumentation.

	FEATURE	SPECIFICATION	NOTES
1	Operating System	Windows 95, Windows 98, Windows 2000, Windows XP	This software has been tested and found compatible with all service packs on these operating systems.
2	Required Software	K-20 Temperature Controller Software ^a	Contact MMR Technologies for the latest version.
3	Recommended Software	Adobe Acrobat Reader; Microsoft Word and Excel	This manual can be obtained in Adobe PDF format for your convenience. Data may be manipulated in Excel, and Word may be used for reporting.
4	Processor	1.2 GHz Celeron Pentium	Minimum Requirement
5	Memory	128 MB RAM (megabytes)	Minimum requirement
6	Hard Drive	1 GB of free space	Minimum requirement
7	Floppy Drive	3.5 inch floppy drive	Minimum requirement

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	FEATURE	SPECIFICATION	NOTES
8	CD Drive	16 X CD-R drive	It is recommended that a CD-RW is available to make off line data back-ups if the computer is not networked.
9	Display	Minimum SVGA	Recommend running at least 800 x 600 resolution.
10	Mouse and Keyboard	Microsoft mouse and keyboard or compatible human interface devices.	N/A
11	Communication Ports	Must have at least one free serial (RS232) port available for the K-20 Controller. The Hall and Seebeck Systems require up to four free serial (RSR232) ports available.	If a printer is desired, it is recommended that there is at least one free USB port available for connection of the printer.
12	Printer	No requirement.	Option ^b
13	Networking	No requirement.	Option ^c

a. There may be a charge to obtain a copy of the latest version software to control MMR Technologies instrumentation. Contact MMR Technologies for additional information on versions, availability, and pricing.

b. With certain MMR Technologies instruments, a printer is shipped as part of the instrumentation package. If print-outs of the data are desired, it is recommended that a printer be either purchased or installed onto the computer used for controlling the instrumentation.

c. There are no known incompatibilities or special requirements of the K-20 controller software or Hall Measurement Software with networking of the host computer. MMR Technologies, Inc. is not responsible for the networking of the host computer.

► **NOTE**

The software supports computer communication with the controller via serial ports COM1 - COM4 and the IEEE 488 interface. If one wants to use the IEEE 488 interface, MMR Technologies can supply the special interface board (Capital Equipment Corp.) and cables. Contact MMR Technologies for further information.¹

This technical support bulletin assumes that the RS-232 interface is being used.

1. MMR Technologies, Inc. can be contacted by phone (+1 650-962-9620), by fax (+1 650-962-9647) or by email (sales@mmr.com).

Δ WARNING

MMR Technologies does not assume any responsibility for the compatibility of the system, including the computer, with other software products or hardware cards which the user may install on the computer.

FURTHER QUESTIONS

If you have further questions, please do not hesitate to contact MMR Technologies, Inc.:

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E-mail: Sales@mmr.com

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