How to install the Ines PCMCIA card in Win98

Boot the computer without the pemcia card in the socket. Locate the CD ROM with the Ines drivers into your drive.

Insert the Ines card into the pcmcia socket. Below is a typical screen after Win98SE finds the new hardware. Click the next button.

ld New Hardware Wi	
	This wizard searches for new drivers for:
	ines, incIEEE488.2 PCMCIA
	A device driver is a software program that makes a hardware device work.
😵 💑	
\diamond	
	< Back Next > Cancel

Since the CD contains an inf file for Windows to use, the automatic search for a driver works well so long as the CD drive is included as a source that should be searched. Click Next button.

Add New Hardware Wiz	zard
	 What do you want Windows to do? Search for the best driver for your device. (Recommended). Display a list of all the drivers in a specific location, so you can select the driver you want.
	< <u>B</u> ack Next > Cancel

On the CD, the inf file was found and the screen below is presented. Accept the 'Recommended' driver and click the Next button.

Add New Hardware Wiz	ard
	Windows has found an updated driver for this device, and also some other drivers that should work with this device.
	What do you want to install?
*	 The updated driver (Recommended) ines GPIB-PCMCIA 11.001 Win95/98
	O One of the other driversiew List
	< <u>B</u> ack Next > Cancel

Windows confirms the use of IGPIBW95.INF from the CD drive will be used. Click the Next button.

Add New Hardware Wiz	zard
	Windows driver file search for the device:
	ines GPIB-PCMCIA 11.001 Win95/98
	Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
🗞 🌫	Location of driver:
1	< <u>B</u> ack <u>Next</u> Cancel

Windows indicates it is now complete. Click the Finish button.

Add New Hardware Wiz	ard
	ines GPIB-PCMCIA 11.001 Win95/98
	Windows has finished installing the software that your new hardware device requires.
	< <u>B</u> ack Finish Cancel

Keep the CD ROM in the drive and click the yes button to allow the computer to reboot.

System S	Settings Change 🛛 🔀
?	To finish setting up your new hardware, you must restart your computer.
	Do you want to restart your computer now?

Once the computer as rebooted, the screen below is displayed. Again, the CD drive is being accessed. Click OK button.

ines IEEE488 installation for Windows95	X
Now the ines software will be installed.	
Please insert the ines installation disk into the drive shown below and choose OK.	14
l:\win95\pcmcia	
OK Cancel	

The dialog below is shown. Click the Install button.

Start dia	Start dialog			
mes	List of available choi	ces supplied by the installation program.		
	<u>I</u> nstall	Install ines IEEE488.2 Interface Software.		
	<u>R</u> emove	Remove ines IEEE488.2 Interface Software.		
	⊻iew ReadMe	View latest news.		
	<u>A</u> bort	Leave installation program.		
	<u>H</u> elp			

The resulting dialog allows adjustment of the installation locations. Accept the defaults for most situations. Click the Next button.

Installation directories		×
Description of mes software.	directories, that are used for installation of the interface	
Source directory: Boot drive:	l:\win95\pcmcia C:	
Windows directory:	C:\WINDOWS	
Ines directory:	C:\INES4882	
Next	Back Abort Help	

This window interface boa	Contraction of the second s	information necessary t	o access the
Board: I/O address: Interrupt channel:	ines GPIB-PCM /	CEC/PC2 com © DIP switch 8 0 PC2a compati © DIP switch 8 0	N ble
DMA channel:	not used	System control	I Use FIF0
PCMCIA slot:	any	Default values	<u>T</u> est hardware
<u>N</u> ext	<u>B</u> ack	Abort	<u>H</u> elp

The dialog below will appear in a few moments. Click the Next button.

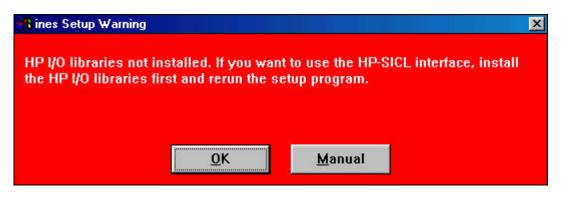
When using the pcmcia card, the error message below will often appear. From the 'Error Messages' section of the help file: The GPIB-PCI and GPIB-PCMCIA cards support shared interrupts under Windows 95/98. The hardware test during setup is not able to handle this and may report this error. **The error should be ignored in that case**. The hardware test included in the diagnostic tool is able to handle shared interrupts and reports correct results.

Click the OK button.

<mark>: i</mark> nes Setup Warning			X
Interrupt test failed. channel.	The IEEE488.2 board	d does not use	the specified interrupt
	<u>0</u> K	<u>M</u> anual	1

Another warning message concerns the HP I/O libraries. The HP I/O libraries are relevent for use of the card from Agilent VEE and are provided on the CD in a separate installation package. Unless you intend to use VEE, this is not an important warning.

Click the OK button.



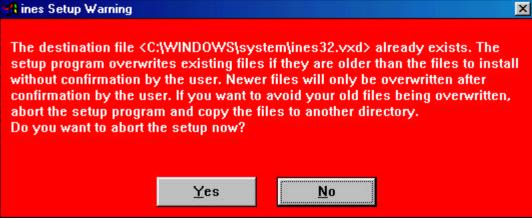
The next dialog to appear concerns software interfaces. By default the WALI check box is checked but the NI-GPIB is not checked. The NI-GPIB interface from this install script is only for version 3.0 and earlier of LabVIEW. Version 4.0 and later can not make use of this interface. To use version 4.0 or later of LabVIEW with this ines card, Keithley can provide a passport driver which will enable NI-VISA libraries installed with LabVIEW to utilize the GPIB bus.

Click the Next button.

Software config	uration	×
A A A A A A A A A A A A A A A A A A A	window can be used to choose, which software interfaces alled.	should be
BIOS	IEEE488 hardware driver	
M 4881	IEEE488.1 functions	
₩ 4882	IEEE488.2 functions	
🗖 Interf.	Programming language interfaces	<u>S</u> elect
VALI	interactive IEEE488 control program	
HP-SICL	Hewlett-Packard SICL interface	Modify
T NI-GPIB	National Instruments compatible interface	M <u>o</u> dify
<u>N</u> e:		<u>H</u> elp
[

Another warning message is often shown indicating a vxd file already exists. Respond NO to this dialog. Do not abort the setup.

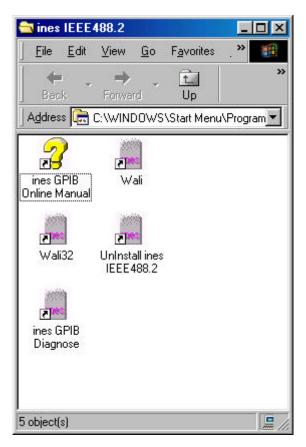
Click the No button.



The dialog below will be shown.

ines Setup Ir	nformation	×
Installation ha	as now been complete	ed succesfully.
	(OK)	

And a new program group is created:



Use Windows Device Manager to determine the resources used by your card. For the installation shown, the address of the card starts at hex value of 1000 and it uses interrupt 11.

es GPIB-PCMCIA 11	1.001 Win95/98 Properties	? ×
General Driver Reso	ources	
ines GPIB-P0	CMCIA 11.001 Win95/98	
🔽 Use automatic setti	ings	
Setting based on:	asic configuration 0000	*
Resource type	Setting	
Input/Output Rang	je 1000 - 101F	
Interrupt Request	11	-
Change Setting		
Conflicting device list:		
No conflicts.		A
	OK I	Cancel

Invoke the Wali32 program from either the Start Button or the icon in the new program group. Most modern GPIB instruments support the use of SCPIcommand set. The SCPI command for an instrument to identify itself is *IDN?. If your instrument does not support SCPI, consult the manual for that product to find appropriate commands.

Below is a screen shot of the Wali32 utility successfully sending the *IDN? command to an instrument at address 16 and then reading back the response. All three lines can be typed into the Wali program (be sure to adjust the parameters used for the first line to match the I/O address and IRQ used by your card). Then press F9 to bring up the I/O Buffer Hexdump window to display the response. Then press F2 to execute the three lines that were typed into the Wali32 program.

📕 Wali	32 -	(Unti	itled)	S	yster	n: IE	EE4	88										- 🗆 ×
<u>File</u> <u>B</u> u	un <u>P</u>	aram	eters	Inte	erface	e <u>S</u> tal	tus	<u>H</u> elp										
init 1					2	1010000000												
output				N?"														
enter	716	, #	6															_
0000																	C. 1847	
1/0	Buff	er H	exdu	Imp (Para	amet	ei #1	6)									×	
<u>C</u> lear I/	'O Buf	fer <	Shift	>+F9														
0000	48	45	57	4c	45	54	54	2d	50	41	43	4Ъ	41	52	44	2c	HEWLETT-PACKARD,	
0010	33	34	34	30	31	41	2c	30	2c	31	2d	31	2d	31	0a	00	34401A,0,1-1-1	
0020	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
0030	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00 00		
0040	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	•••••	
0060	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
0070	ÕÕ	ÕÕ	ÕÕ	ÕÕ	ÕÕ	ÕÕ	ÕÕ	ÕÕ	ÕÕ	ÕÕ	ÕÕ	ÕÕ	ÕÕ	ÕÕ	ÕÕ	ÕÕ		
0080	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
0090	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
00a0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
00b0 00c0	00	00	00	00	00	00	00	00	00	00 00	00	00	00	00 00	00	00 00		
00000	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
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