N4906B-02B S V Ν Ε R С Ε ()Ε

Supersedes: N4906B-02A

N4906B Serial Bit Error Ratio Tester

Serial Numbers: DE45200370 - DE45200400 MY45200500 - MY45200520

There are 3 items to check and modify if required:

- 1. An older version of the Agilent IO-Libraries may lead to problems. Check whether the correct version is installed.
- 2. Check the configuration of the Agilent IO Libraries "Internal Instruments".
- 3. An incorrect setting within the Agilent IO Libraries may lead to programmatic inaccessibility and communication failure of the N4906B when connected via the GPIB bus.

Parts Required: P/N Description NONE

Qty.

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:				
MODIFICATION RECOMMENDED				
ACTION [[]] ON SPECIFIED FAILURE CATEGORY: XX AGREEABLE TIME	STANDARDS LABOR: 0.3 Hours			
LOCATION XX CUSTOMER INSTALLABLE CATEGORY: XX ON-SITE (active On-site contract required) XX SERVICE CENTER XX CHANNEL PARTNER	SERVICE [[]] RETURN INVENTORY: [[]] SCRAP XX SEE TEXT USED [[]] RETURN PARTS: [[]] SCRAP XX SEE TEXT			
AVAILABILITY: PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL: 11-Apr-2015			
[[]] Calibration Required XXCalibration NOT Required	PRODUCT LINE: PL24 AUTHOR: HK			
ADDITIONAL INFORMATION:				

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Situation:

A series of steps needs to be performed in order to ensure proper configuration of the Agilent IO-Libraries in the N4906B.

This service note contains also background information in order to understand the steps and to allow trouble shooting in situation where things do not work correctly.

Step 1#: Check installed version of Agilent IO-Libraries

Units in the specified range of serial numbers may have an older version of the Agilent IO Libraries installed which shows unwanted behavior.

Please check the installed version of the Agilent IO Libraries:

- 1. Identify the icon of the Agilent IO Libraries in the lower right corner of the N4906B display (
), right-click on it, search for the menu entry "Agilent Connection Expert" and start it.
- 2. On the menu bar of the Agilent Connection Expert select Help \rightarrow About



The version number should be at least **15.5.13009.1**. If that is the case please continue with the steps in the next chapter: "Check the configuration of the Agilent IO Libraries "Internal Instruments"

- 3. If the installed version is lower than that please do the following:
 - a. Install the newer version on top of the older version. You can get it from here: <u>\\wbbnps03\ftp_support\All-</u> <u>Support\PV_Software\Agilent_IO_Libs\IO_Libs_15.5\IOLibSuite_15_5_13009_1</u> <u>.exe</u>
 - Reboot the N4906B.
 Please check whether the N4906B application starts up without any errors (firmware server and GUI). You should not have to install the N4906B application again after the Agilent IO-Libs update.
 - c. Continue with the steps in the next chapter.

Step #2: Check the GPIB2 Interface Card Configuration

The N4906B instrument has a GPIB connector on the rear side (82350 GPIB PCI card). This GPIB interface card (GPIB2) is only used for programmatic control ("remote programming") of the N4906B.

The typical setup would be as follows: a PC is connected to the back of the N4906B (and potentially other measurement equipment) using GPIB and a program on this PC is controlling the setup.



On a GPIB bus there can be several "slaves" but only one "master", which, in the case above, would be the external PC controller connected to the GPIB bus. However, in the noted serial number range of the N4906B product there may be the cases that the N4906B may act as master, too.

This leads to a complete communication failure of the complete GPIB bus.

It is necessary to change the settings of the built-in GPIB controller card with the help of the Agilent IO Libraries ("Agilent Connection Expert").

Solution/Action:

Please execute the following steps to check and correctly configure the N4906B GPIB interface card:

- 1. Identify the icon of the Agilent IO Libraries in the lower right corner of the N4906B display (10), right-click on it, search for the menu entry "Agilent Connection Expert" and start it.
- 2. You will see the following window:



Identify the **GPIB2 interface card**, select it with the mouse and right-click it to get the menu shown above. In the menu select "**Change Properties**".

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3. You will see the following picture:

/ISA interface ID:	GPIB2	~
SPIB address	21	~
System controller (r	ecommended)	
ICL interface ID:	gpib0	~
ogical unit:	9	~
Auto-discover instr uncheck	uments connected to thi Agilent 488	s interface Properties

You will find the 2 checkboxes checked as shown in the picture above.

4. Please **uncheck both checkboxes** as shown in the next picture:

VISA interface ID:	GPIB2	~
GPIB address:	21	~
System controller (r	ecommended)	
SICL interface ID:	gpib0	~
Logical unit:	9	~
Auto-discover instr	uments connected to thi Agilent 488	s interface Properties

The correct settings shown in the picture above will make sure that the N4906B does not act as GPIB master and does not disturb communication on the GPIB bus.

- 5. Click **ok** in the window above (step 4) and return to the main screen of the "Agilent Connection Expert".
- 6. Identify the GPIB2 interface, select it with the mouse and right-click it to get the menu shown above. In the menu select "Ignore".

File Edit View I/O Configuration	on To	ools Help				
😌 Refresh All 🛛 🧭 Undo 🗙 Delete		Properties 🛛 🗐	Interactive IO 📲	Add Ir	nstrument 📙 Add I	Interface
ask Guide	×	Instrument I/O on	this PC	Agile	nt 82350 PCI GPI	lB Interface - (
asks for This Interface	^	Refresh All		An A com	Agilent GPIB inter Iputer	face card insta
Refresh this GPIB interface			ZFTDU	0	This item has been	verified
Change properties		COM1 (A	SRL1) SRL2)			
Change the label		🖃 🏹 GPIBO		100		CDIDO
jgnore	=		68 (GPIBU::11::IN5	Seri	a internace iD. ial number:	GPI62 MY4953000
K Delete			Refresh This Interf	ace	address:	21
eneral Tasks			Change Properties		m Controller:	No
	-11	1	Ignore		unter of a new life.	-wik 0
2 Refresh all			Delete		nterrace iD.	gpibu
			Change Label		al unit:	9
😽 Add an instrument			Add Instrument		l number:	2 (GPIB2)
lore Information				Aut	o-discover:	No
	-			<		

7. The green next to the GPIB2 in the list should change to purple as shown in the picture below. "Ignore" means, that the "Agilent Connection Expert" will ignore devices connected to this interface on future device scans. This will prevent the "Agilent Connection Expert" from reconfiguring devices connected to this interface and the configuration steps described above will persist.



8. **Now reboot** (important!!) the N4906B to check for the firmware/hardware handshake and **then verify** the implemented "Agilent Connection Expert" configuration is unchanged.

NOTE: At the end of this document you find instructions on how to correct the configurations in case they do not match the descriptions!

Questions and Answers:

- I do not have a GPIB2 interface in my Agilent Connection Expert window
 - Please check page 14 and following to delete the existing configuration and replace it with a new configuration
- What will happen if GPIB2 is configured in the wrong way?
 - You will not be able to control your N4906B via a remote program that resides on the external controller PC
 - Your GPIB bus that is connected to the GPIB2 interface of the N4906B will have 2 masters. This will lead to a communication breakdown on the GPIB bus. An external control PC will not be able to control some or all the devices that are connected to the GPIB bus. The complete test setup may "hang".
- Will I be able to use the N4906B?
 - Your N4906B would function correctly and is able to take measurements as long as it is not connected to any GPIB bus via the GPIB2 interface card on the rear side. However, this is not recommended. Please check the GPIB2 interface card configuration and make changes as necessary.
- My remote program is not able to connect to the N4906B or does not work!
 - You have a setup similar or identical as shown on page 3. It is very likely that the GPIB2 interface card is configured incorrectly. Please check and adapt the configuration as it is described in the previous chapter.

Step #3: Check the GPIB1 ("Internal Instrument") Configuration

The N4906B instrument has two LAN connectors on the back (LAN0 and LAN1). Either LAN interface can be used for programmatic control ("remote programming") of the N4906B.

The typical setup would be as follows. A PC is connected to the TCPIP network and the N4906B (and potentially other measurement equipment) is connected to the network, too. A program on the PC is controlling the setup by sending commands.



The Agilent IO Libraries have the task to route the network packets that contain the commands and that come from the external PC controller over the network to the N4906B software and hardware.

It is necessary to have the GPIB1 "Internal Instrument" setup correctly in order for this chain to work.

Please check the following:

- 1. Identify the icon of the Agilent IO Libraries in the lower right corner of the N4906B display (10), right-click on it, search for the menu entry "Agilent Connection Expert" and start it.
- 2. You will see the following window:



Identify the **GPIB1 interface**. It has a red cross and it shows an error in the right half of the screen. That is normal in this case. Do not get confused by that!

3. Close the Agilent Connection Expert.

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4. Start the IO Configuration Manager "iocfg32.exe" on the N4906B which is located in the directory

C:\Program Files\Agilent\IO Libraries Suite\bin You will get the following window:

Options He	alb			
Config configu To configure To edit a cor To automatic	ares and edits Agilent IO interfaces. a new interface, select the interface nfigured interface, select the interface cally configure the interfaces identifie	e in 'Available Interface e in 'Configured Interfa d with '*', click 'Auto Co	Types' and click 'Conf ces' and click 'Edit' onfig'	igure'
vailable Inter	face Types	Configured Interfa	ces	
VISA Type	Interface Description	VISA Name	SICL Name	
ASRL	*RS-232 COM Ports	ASRL1	COM1	* Auto Confi
ASRL	VISA LAN Client (e.g. E58	ASRL2	COM2	
GPIB	*82350 PCI GPIB Card	GPIBO	hpib/	
GPIB	*GPIB Using NI-488.2	GPIB1	anibû	OK
GPIB	82357 USB to GPIB	TCPIPO	lan	3-3
GPIB	VISA LAN Client (e.g. E58"	USBO	usb0	
GPIB-VXI	GPIB-VXI Command Modu 🗮	n/a	n/a	<u>H</u> elp
TCPIP	*LAN Client (LAN Instrume			
USB	*USB Instruments			
USB	VISA LAN Client for USB			
VXI	*E8491 IEEE-1394 to VXI			
Internal Instr	rument			
n/a	LAN Server (PC as Server 🕍			
			1	
	Configure		Bemove	

5. On the left side, under "Available Interface Types" you should see a line "Internal Instruments".

If you do not have the line "Internal Instruments" please do the following:

- a. Exit the IO Configuration Manager" by pressing ok.
- b. Go to the following directory C:\Program Files\Agilent\N4906B\GPIB
- c. Execute the program "install.exe" by double-clicking on it.
- d. Again start the IO Configuration Manager "iocfg32.exe" on the N4906B which is located in the directory
 - C:\Program Files\Agilent\IO Libraries Suite\bin.
- e. Now you should have a line item "Internal Instruments" on the left side.
- 6. On the right side you should see the following important and configured interfaces: ASRL1, ASRL2, GPIB2, GPIB0, GPIB1, TCPIP0 and USB0. Now let's check the configuration for the GPIB1 interface
- 7. GPIB1

GPIB1 is a virtual LAN interface ("Internal Instrument") which allows programmatic access to the N4906B via LAN.

Questions? Press the Recommended default	Help button belov values are shown	<i>i.</i> 1.
SICL Interface Name:	inst0	OK
VISA Interface Name:	GPIB1	Cancel
Logical Unit:	7	Help
Bus Address:	21 :	Defaults
Log Errors		Edit VISA Config

Important is the correct "SICL Interface Name": "inst0"

NOTE: At the end of this document you find instructions on how to correct the configurations in case they do not match the descriptions!

Questions and Answers:

- My remote program works correctly when using GPIB. However, I want to use a LAN connection to send my remote commands, but LAN does not seem to work!
 - Your remote program resides on an external PC controller that is located somewhere in the LAN. The program is supposed to control the measurements running on the N4906B. However, the program does not run. It does not seem to find the N4906B.
 - Check whether both instruments (external PC controller and N4906B) have valid IP addresses and check whether each device can access the other one. Use ping <IP Address>.
 - Check the configuration in the Agilent Connection Expert.
 - Check the GPIB1 configuration as explained above.

Step #4: Check the GPIB0 ("Internal Instrument") Configuration

The N4906B product itself contains a PC (running WinXP), which controls the N4906B measurement hardware. The display of this internal PC controller is the front panel of the N4906B.

Instead of using an external PC controller, you can also use this built-in PC to run programs that control the N4906B measurements ("remote programming").

The Agilent IO Libraries have the task to route the commands from your program running on this internal PC controller to the N4906B measurement software and hardware.

It is necessary to have the GPIBO "Internal Instrument" setup correctly in order for this chain to work.

Please check the following:

- 1. Identify the icon of the Agilent IO Libraries in the lower right corner of the N4906B display (10), right-click on it, search for the menu entry "Agilent Connection Expert" and start it.
- 2. You will see the following window:



Identify the **GPIB0 interface** and notice the line underneath: **"N4906B (GPIB0::11::INSTR)**.

- 3. Close the Agilent Connection Expert.
- 4. Start the IO Configuration Manager "iocfg32.exe" on the N4906B which is located in the directory C:\Program Files\Agilent\IO Libraries Suite\bin

You will get the following window:

Options He	slp			
Config configu • To configure • To edit a cor • To automatic	ares and edits Agilent ID interfaces. a new interface, select the interface ofigured interface, select the interface cally configure the interfaces identifie	in 'Available Interface e in 'Configured Interfa d with ™, click 'Auto Co	Types' and click 'Cor ces' and click 'Edit' onfig'	figure'
Available Inter	face Types	- Configured Interfa	ces	
VISA Type	Interface Description	VISA Name	SICL Name	
ASRL	*RS-232 COM Ports	ASRL1	COM1	* Auto Config
ASRL	VISA LAN Client (e.g. E58	GPIB0	hpih7	
GPIB	*82350 PCI GPIB Card	GPIB1	inst0	OK
GPIB	"GPIB Using NI-488.2	GPIB2	gpib0	
CPIP	32357 USB to GPIB	LISBO	lan usbû	
GPIRAMI	GPIRACI Command Modu	n/a	n/a	Help
TCPIP	AN Client (LAN Instrume	1.000 C		
LISB	*USB Instruments			
USB	VISA LAN Client for LISB			
VXI	*E8491 IEEE-1394 to VXI			
Internal Instr	rument			
n/a	LAN Server (PC as Server 🕙			
			4	
	Configure		Bemove	

5. On the left side, under "Available Interface Types" you should see a line "Internal Instruments".

If you do not have the line "Internal Instruments" please do the following:

- f. Exit the IO Configuration Manager" by pressing ok.
- g. Go to the following directory
 - C:\Program Files\Agilent\N4906B\GPIB
- h. Execute the program "install.exe" by double-clicking on it.
- i. Again start the IO Configuration Manager "iocfg32.exe" on the N4906B which is located in the directory
 - C:\Program Files\Agilent\IO Libraries Suite\bin.
- j. Now you should have a line item "Internal Instruments" on the left side.
- 6. On the right side you should see the following important and configured interfaces: ASRL1, ASRL2, GPIB2, GPIB0, GPIB1, TCPIP0 and USB0. Now let's check the configuration for the GPIB0 interface.
- 7. GPIB0

GPIB0 is a virtual GPIB interface ("Internal Instrument") which allows programmatic access to the N4906B via GPIB using the internal PC controller (**not** an external PC controller).

Questions? Press the Recommended defaul	Help button belov values are show	v. n.
SICL Interface Name:	hpib7	OK
VISA Interface Name:	GPIBO 📩	Cancel
Logical Unit:	8	Help
Bus Address:	21	Defaults
Log Errors		Edit VISA Config

Important is the correct "SICL Interface Name": "hpib7"

NOTE: At the end of this document you find instructions on how to correct the configurations in case they do not match the descriptions!

Questions and Answers:

0

- I do not have a GPIB0 interface as shown above in my Agilent Connection Expert window. Can I still use my N4906B?
 - Please fix the GPIB0 interface as described above and on 14 and following.
 - Without the GPIB0 interface correctly configured you still can do the following:
 - Run N4906B measurements using manual operation (front panel)
 - Run remote programs residing on an external PC controller which is connected via GPIB (using the GPIB2 interface) or which is connected via LAN (using the GPIB1 internal instrument interface).
 - Without the GPIB0 interface correctly configured you cannot run programs using the internal (N4906B built-in) PC controller

Step #5: Check the remaining Interface Configurations

Please check the following:

- 1. Close the Agilent Connection Expert.
- 2. Start the IO Configuration Manager "iocfg32.exe" on the N4906B which is located in the directory

C:\Program Files\Agilent\IO Libraries Suite\bin You will get the following window:

Options He	lp			
Config configu • To configure • To edit a cor • To automatic	res and edits Agilent ID interfaces. a new interface, select the interface figured interface, select the interfac ally configure the interfaces identifie	e in 'Available Interface e in 'Configured Interfa d with **, click 'Auto Co	Types' and click 'Cor ces' and click 'Edit' onfig'	figure'
Available Inter	face Types	Configured Interfa	ces	
VISA Type	Interface Description	VISA Name	SICL Name	
ASRL	*RS-232 COM Ports	ASRL1	COM1	* Auto Config
ASRL	VISA LAN Client (e.g. E58	ASRL2	COM2	
GPIB	*82350 PCI GPIB Card	GPIBO	hpib7	
GPIB	*GPIB Using NI-488.2	GPIB2	apib0	OK
GPIB	82357 USB to GPIB	TCPIPO	lan	
GPIB	VISA LAN Client (e.g. E58'	USBO	usb0	
GPIB-VXI	GPIB-VXI Command Modu	n/a	n/a	<u>H</u> elp
TCPIP	*LAN Client (LAN Instrume			
USB	*USB Instruments			
USB	VISA LAN Client for USB			
VXI	*E8491 IEEE-1394 to VXI			
Internal Instr	ument 📃			
n/a	LAN Server (PC as Server 🖄			
		F	1	

3. On the left side, under "Available Interface Types" you should see a line "Internal Instruments".

If you do not have the line "Internal Instruments" please do the following:

- k. Exit the IO Configuration Manager" by pressing ok.
 - 1. Go to the following directory C:\Program Files\Agilent\N4906B\GPIB
 - m. Execute the program "install.exe" by double-clicking on it.
 - n. Again start the IO Configuration Manager "iocfg32.exe" on the N4906B which is located in the directory
 Chapter Eller (Mark 100 Libertine Society) him
 - C:\Program Files\Agilent\IO Libraries Suite\bin.
 - o. Now you should have a line item "Internal Instruments" on the left side.
- 4. On the right side you should see the following important and configured interfaces: ASRL1, ASRL2, GPIB2, GPIB0, GPIB1, TCPIP0 and USB0. Now let's check the configuration for each of the important ones.

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5. GPIB2

GPIB2 is the physical 82350 PCI GPIB card that is accessible from the rear side of the N4906B. The serial number of the N4906B is shown in the field at the top.

Questions? Press the Help t Recommended default value	outton below. es are shown.
Serial Number: MY49530009	
SICL Interface Name: gpib0	ОК
/ISA Interface Name: GPIB2	Cancel
Board Number: 2	Help
.ogical Unit: 9	Defaults
Bus Address: 21	
System Controller	Edit VISA Config

6. TCPIP0

TCPIP0 is the physical LAN interface of the N4906B, accessible from the rear side of the N4906B.

Questions? Press the Help button below Recommended default values are shown).
SICL Interface Name: Ian	OK
VISA Interface Name: TCPIP0	Cancel
LAN Infinite Timeout: 120 Seconds	Help
Client Timeout Delta: 5 Seconds	Defaults
Connect Timeout: 5000 Milliseconds	
Default Protocol C AUTO (automatically detect pro VXI-11 (TCP/IP Instrument Prot SICL-LAN	tocol)

7. USB0

USB0 is the physical USB interface of the N4906B.

Alias name	Serial number	Vendor ID	Product ID	Identification	Add Alias
					Edit Allas
					Delete Alia
					Close
•					
	Show a pop-up o Each time a Only when a	lialog box USB device is a new USB de a non-un dialo	plugged in. vice is plugged	lin.	

My Configuration Settings to do match! What do I do?

My Agilent Connection Expert does not show a GPIB2 interface

The absence of a GPIB2 interface has nothing to do with the N4906B software or hardware. It is solely related to either a hardware problem related to the interface card itself or the built-in PC or a configuration problem of the Agilent IO Libraries.

Please check the following:

1. Open the Device Manager (Control Panel → System → Hardware) of the internal PC controller via the front panel of the N4906B. You should see the 82350B PCI GPIB interface card as shown below:



If you do not see the card or the card show a "yellow bang" in the window above, the card itself may be dead or not seated correctly in the PCI slot of the internal PC. Please check.

 If you see the card in the window above, start the IO Configuration Manager "iocfg32.exe" on the N4906B which is located in the directory C:\Program Files\Agilent\IO Libraries Suite\bin You will get the following window:

e Options H	elp			
O Config config - To configure - To edit a co - To automati	ures and edits Agilent ID interfaces. s a new interface, select the interface nfigured interface, select the interface cally configure the interfaces identifie	e in 'Available Interface e in 'Configured Interfa d with '*', click 'Auto Co	Types' and click 'Con ces' and click 'Edit' onfig'	figure'
Available inte	nace types	Conligured Interra	ces	
ASRL ASRL GPIB GPIB GPIB GPIB-VXI TCPIP	*RS-232 CDM Ports VISA LAN Client (e.g. E58 *82350 PCI GPIB Card *GPIB Using NI-488 2 82357 USB to GPIB VISA LAN Client (e.g. E58 GPIB-VA Command Modu *LAN Client (LAN Instrume	ASRL1 ASRL2 GPIB0 GPIB1 GPIB2 TCPIP0 USB0 n/a	COM1 COM2 hpib7 inst0 gpib0 lan usb0 usb0 n/a	<u>* Auto Config</u> OK <u>H</u> elp
USB USB VXI Internal Inst n/a	*USB Instruments VISA LAN Client for USB *E8491 IEEE-1394 to VXI rument LAN Server (PC as Server			
		T D	1	

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3. GPIB2

GPIB2 is the physical 82350 PCI GPIB card that is accessible from the rear side of the N4906B. The serial number of the N4906B is shown in the field at the top. Check all fields.

Questions? Recommend	Press the Help button below. led default values are shown.
Serial Number: MY49530	1009
SICL Interface Name:	ppib0) OK
/ISA Interface Name:	GPIB2
Board Number:	2 Help
Logical Unit: 9	Defaults
Bus Address: 21	÷
 System Controller 	Edit VISA Config.

My "Internal Instruments" Configurations do not match

In case the configurations you find do not match the descriptions above, please change them using the following steps:

- 1. Exit the Agilent Connection Expert on the N4906B.
- 2. Start the IO configuration manager "iocfg32.exe" on the N4906B which is located in the directory

C:\Program Files\Agilent\IO Libraries Suite\bin.

- 3. Check each of the interfaces for correct configuration: GPIB2, GPIB0, GPIB1, TCPIP0, USB0 as described on the previous pages
- 4. Delete all incorrectly configured interfaces from the list of interfaces below: select the mismatching interface and press "Remove" in the window below (step #1 and #2).



5. Select "Internal Instrument" in the window above and press "Configure" (step #3 and #4).

NOTE: Enter the fields (e.g. SICL interface Name, VISA Interface name, etc.) exactly as shown below!

GPIB2

I.

GPIB2 is the physical 82350 PCI GPIB card that is accessible from the rear side of the N4906B. The serial number of the N4906B is shown in the field at the top.

	are shown.
Serial Number: MY49530009	
SICL Interface Name: gpib0(OK
/ISA Interface Name: GPIB2	Cancel
Board Number: 2	Help
.ogical Unit: 9	Defaults
Bus Address: 21	
✓ System Controller	Edit VISA Config

II. GPIB0

GPIB0 is a virtual GPIB interface ("Internal Instrument") which allows programmatic access to the N4906B via GPIB.

Questions? Press the Recommended defaul	Help butt values a	on below re shown		
SICL Interface Name:	hpib7		[OK
VISA Interface Name:	GPIBO	÷		Cancel
Logical Unit:	8	÷		Help
Bus Address:	21	÷	ļ	Defaults
Log Errors			Edit	/ISA Config.

III. GPIB1

GPIB1 is a virtual LAN interface ("Internal Instrument") which allows programmatic access to the N4906B via LAN.

Questions? Press the Recommended default	Help butt values a	on below. re shown		
SICL Interface Name:	jinst0			OK
VISA Interface Name:	GPIB1	÷		Cancel
Logical Unit:	7	<u>.</u>		Help
Bus Address:	21	÷		Defaults
Bus Address:	21	÷	Edit \	Default (ISA Conf

IV. TCPIP0

TCPIP0 is the physical LAN interface of the N4906B, accessible from the rear side of the N4906B.

Questions? Press Recommended d	s the He efault va	lp button below alues are showr	ι. λ
SICL Interface Name: 🗍	lan	_	OK
/ISA Interface Name: [TCPIPO	- =	Cancel
Logical Unit: 📑	30	÷	
LAN Infinite Timeout:	120	Seconds	Help
Client Timeout Delta:	5	Seconds	Defaults
Connect Timeout:	5000	Milliseconds	
Default Pro	itocol — iutomati ICP/IP	cally detect pro Instrument Prot	Edit VISA Config tocol) ocol)

V. USB0

USB0 is the physical USB interface of the N4906B. There may be entries in the table below depending on whether one of the following devices was connected to the instrument: N4916A, N4916B, N4876A or alike.

Alias name	Serial number	Vendor ID	Product ID	Identification	Add Alias
					Edit Alias
					Delete Alla
					Close
					_
•					Þ
	Show a pop-up o	lialog box —			
	• Each time a	USB device is	plugged in.	1	
	C Dop't show	a new use de	vice is pidggec na box adain.	1 11.	

6. **Reboot** (important!!) the N4906B and check again. Use the ViFind32 debug utility to check the results



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The important line is circled in yellow:



The Agilent Connection Expert shows the following:



Revision History:

Revision	Date	Author	Reason For Change
Number			
1.0	11-Apr- 2013	НК	As published