

N1913B N1914B Power Meter Firmware Upgrade Process

Updated October, 2025

Hardware/Software Requirements

The current hardware requirements for this firmware upgrade are:

- a) A PC running Windows 7® or Windows 10®
- b) A GPIB interface card, LAN connection, or USB port.

The current software requirements for this firmware upgrade are:

- a) A VISA library (e.g. Keysight IO Libraries).
- b) The N1913B/14B Firmware Files for your power meter.
- c) The N1913B/14B Firmware Upgrade Application (FwUpdateApp.exe).

Note: This procedure has not been tested on other versions of Windows.

Obtaining The Software

- The latest version of the Keysight IO Libraries can be obtained from the following link: [Keysight IO Libraries](#)
- The N1913B/14B Firmware Upgrade Application and firmware can be obtained from the following link:
www.keysight.com/find/pm_firmware
- Save the file to PC hard drive
- The N1913B/14B Firmware Upgrade Application is included in the Zip file (“/util/FwUpdateApp.exe”)

Firmware Upgrade Process

For hardware B:

Unit	Action		Method
A.02.16 and above	 upgrade/  downgrade to	Any of A.02.16 or above	Go to Method A
A.02.16 and above	 downgrade to	A.01.06 or below	Go to Method B
A.01.06 and below	 upgrade/  downgrade to	Any of A.02.16 or above or A.01.06 or below	Go to Method A

For hardware C:

Unit	Action		Method
A.02.16 and above	upgrade/ downgrade to	Any of A.02.16 or above	Go to Method A
A.02.16 and above	downgrade to	A.01.06 or below	NOT supported

*Hardware C only supported A.02.16 and above

How to check hardware B or C

- Check the Host Revision Id
 - **Method A:** Display screen System-> 2 of 2 -> Service -> Version -> Meter

LCL	Version	LCL	ERR	Version
Model Number:	N1914B	Model Number:	N1914B	
Serial Number:	MY90012709	Serial Number:	MY19970528	
Firmware Rev:	A2.02.20	Firmware Rev:	A2.02.20	
Firmware Date:	Dec 10 2024 03:00	Firmware Date:	Dec 10 2024 03:00	
FPGA Rev:	D083	FPGA Rev:	D083	
Motherboard Rev:	2	Motherboard Rev:	2	
MID FPGA Rev:	0024	MID FPGA Rev:	0024	
Host Revision Id:	08	Host Revision Id:	10	
Carrierboard Rev:	0	Carrierboard Rev:	0	

Host Revision ID:

08 – Hardware B (If this line does not appear, then the unit is with hardware B)

10 – Hardware C

Note:

***Host Revision Id** only supported in A.02.16 and above.

*Hardware C only supported A.02.16 and above

How to check hardware B or C

- Check the Host Revision Id
 - **Method B:** Use SCPI command SYSTem:HOST:HW:REVI?

14 SYSTem Subsystem

SYSTem:HOST:HW:REVI?

This query returns the Host Revision ID.

Syntax



Example

SYST:HOST:HW:REVI?

This command returns the Host Revision ID.

Host Revision ID:

08 – Hardware B

10 – Hardware C

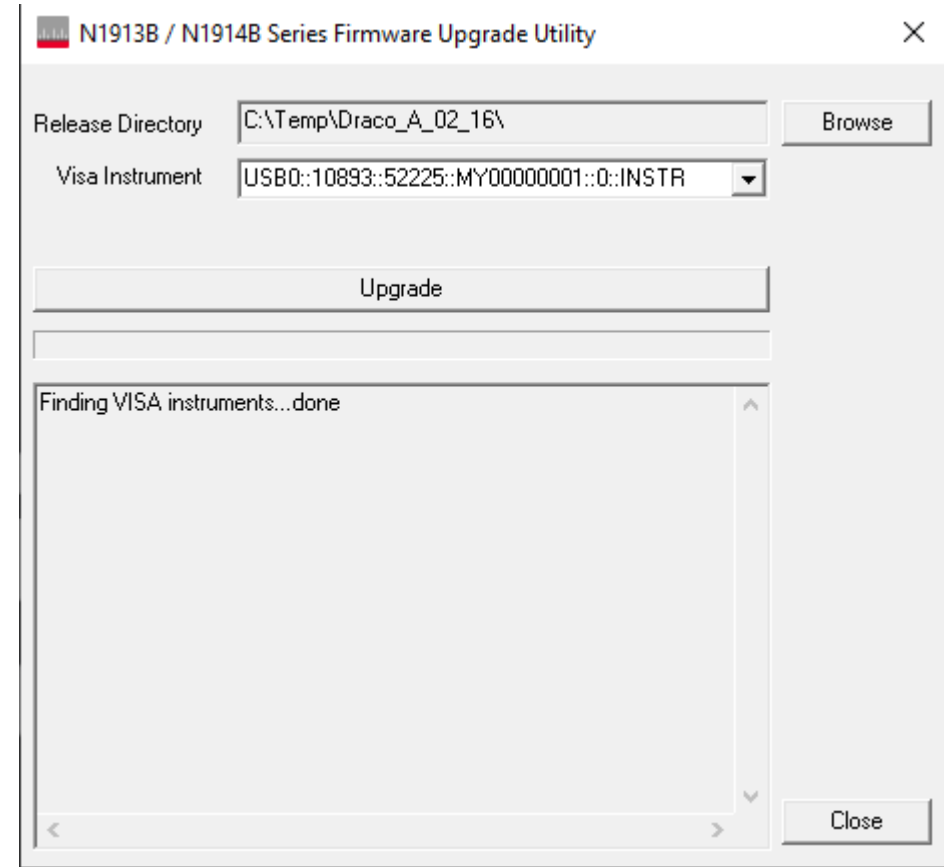
Note:

***Host Revision Id** only supported in A.02.16 and above.

*Hardware C only supported A.02.16 and above

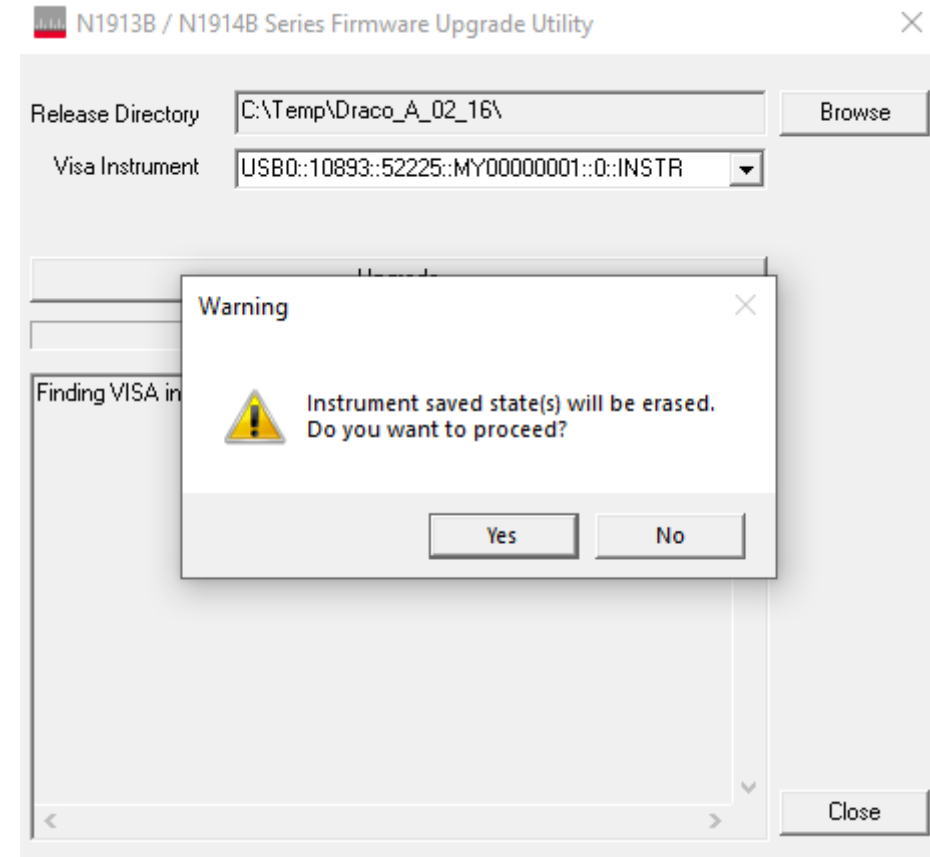
Firmware Upgrade Process (Method A)

- Step 1: Run the 'FwUpdateApp.exe' application. This does not need to be installed – simply double-click on the file to run it.
- Step 2: Click on the 'Browse' button next to 'Release Directory' and select the directory in which the firmware files reside.
- Step 3: Click on the drop-down arrow next to 'VISA Instrument' and select the unit to be upgraded.



Firmware Upgrade Process (Method A)

- Step 4: Click on the 'Upgrade' button. Click 'Yes' on the warning pop-up when asked about instrument saved states.



Firmware Upgrade Process (Method A)

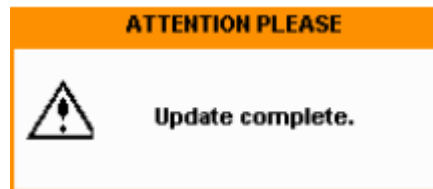
- Step 5: During the upgrade, the power meter will show the following notification on the front panel display.



DO NOT POWER OFF during this time.

The update will take about 7 minutes to complete using USB and LAN interface, and about 12 minutes using GPIB.

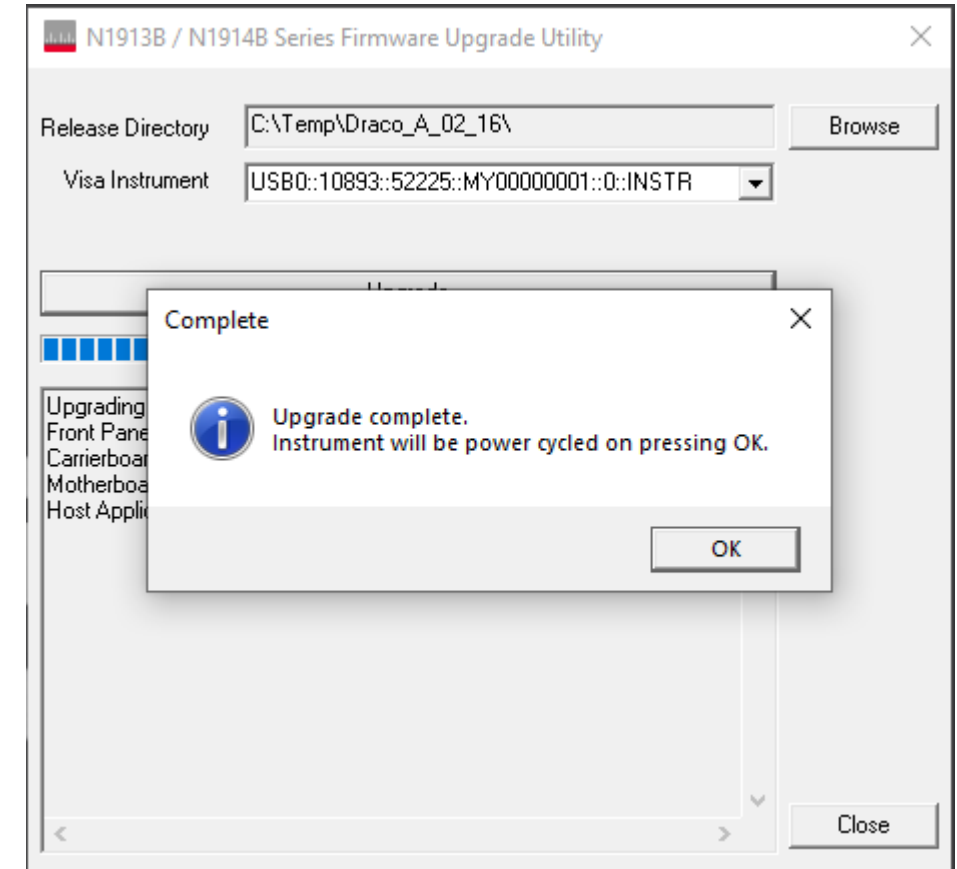
After the upgrade is done, the meter will self-reboot and show the update status as below.



Do not press any button during the powering up at this time.

Click 'OK' on the pop-up that appears when the upgrade is complete.

Now, the power meter will automatically execute a power cycle.

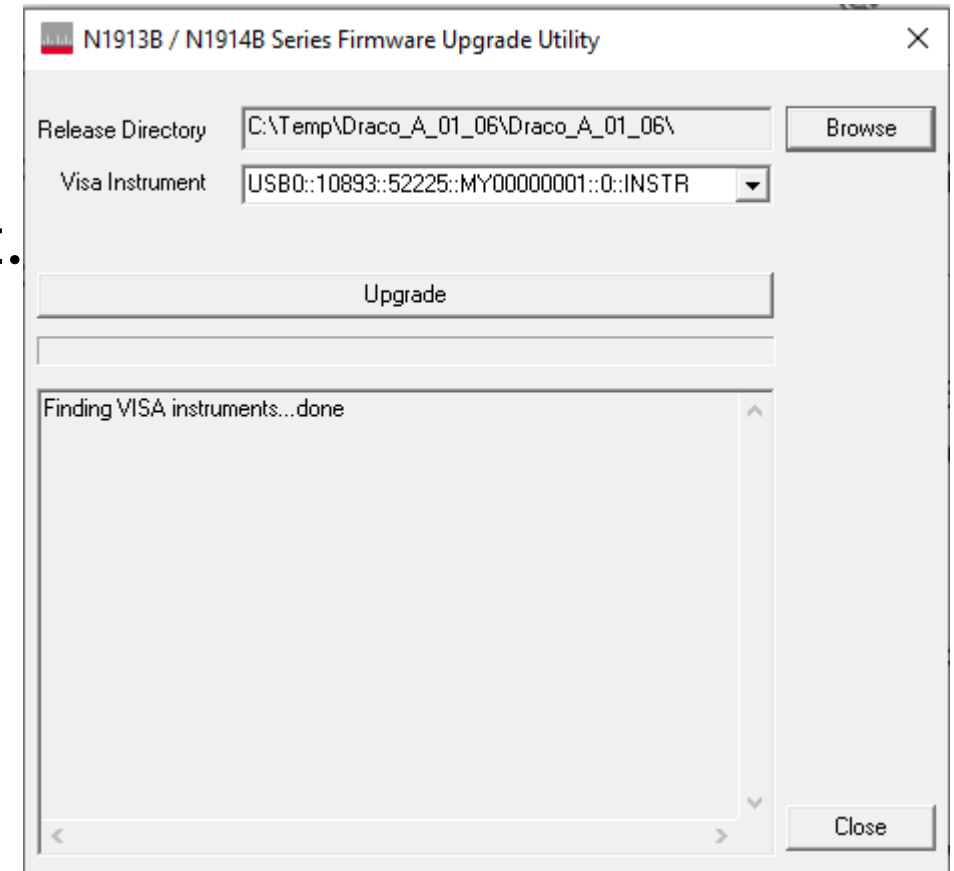


You have successfully upgraded the new firmware!

Firmware Upgrade Process (Method B)

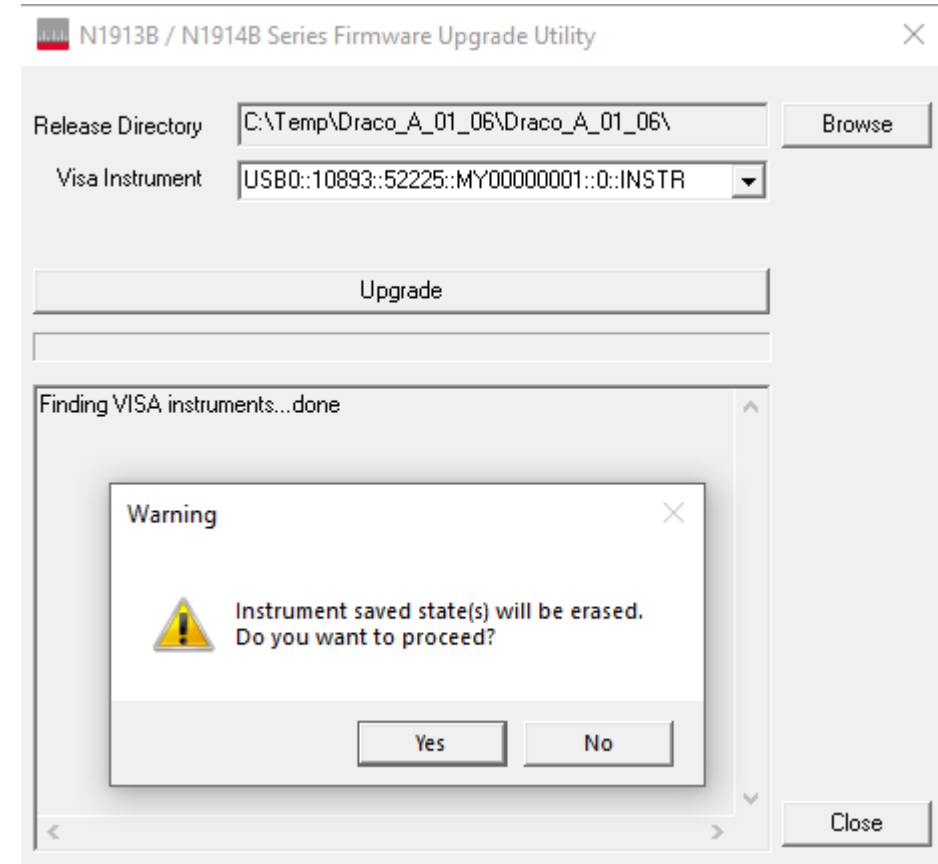
- Step 1: Run the 'FwUpdateApp.exe' application (from **A.02.16** or **above**). This does not need to be installed – simply double-click on the file to run it.
- Step 2: Click on the 'Browse' button next to 'Release Directory' and select the directory in which the firmware files reside.
- Step 3: Click on the drop-down arrow next to 'VISA Instrument' and select the unit to be upgraded.

***Make sure use the FwUpdateApp.exe from A.02.16 or above!**



Firmware Upgrade Process (Method B)

- Step 4: Click on the 'Upgrade' button. Click 'Yes' on the warning pop-up when asked about instrument saved states.



Firmware Upgrade Process (Method B)

- Step 5: During the upgrade, the power meter will show the following notification on the front panel display.

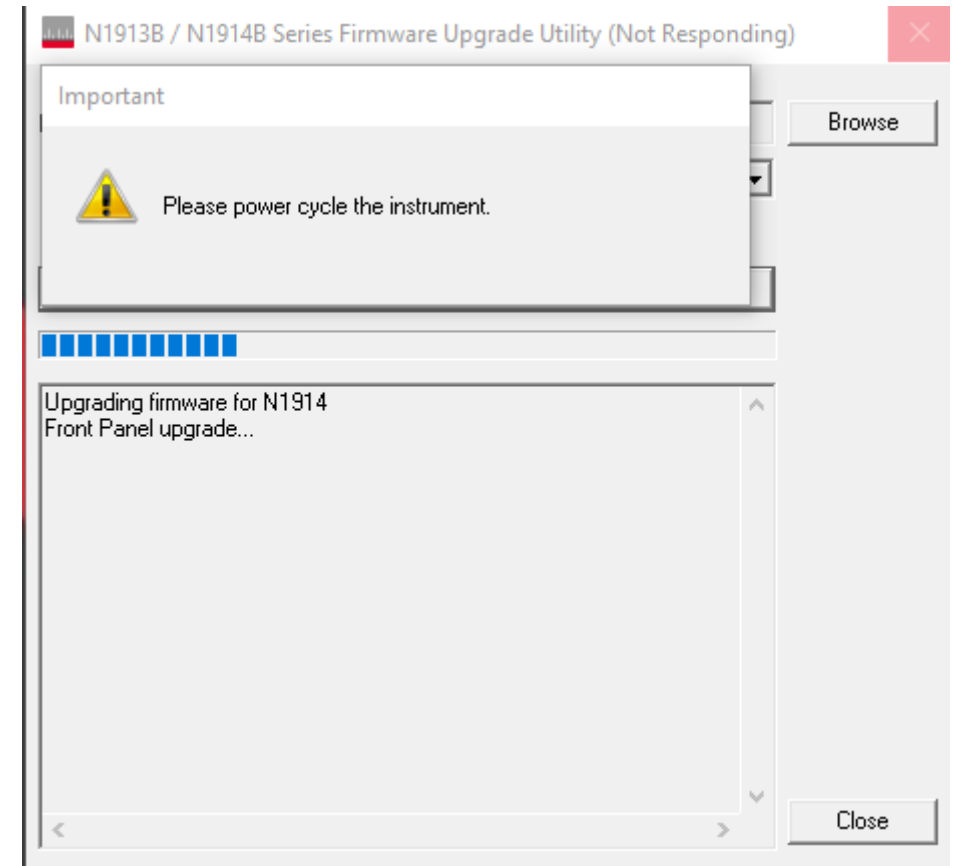


DO NOT POWER OFF during this time.

The update will take about 7 minutes to complete using USB and LAN interface, and about 12 minutes using GPIB.

After the upgrade is done, the FUU will popup a message "Please power cycle the instrument."

- Step 6: User need to manually press the meter power button to power cycle the meter.



Firmware Upgrade Process (Method B)

After meter rebooted will show the update status as below.



Do not press any button during the powering up at this time.

- Step 7: Click 'OK' on the pop-up that appears when the upgrade is complete.

Now, the power meter will automatically execute a power cycle.

You have successfully upgraded the new firmware!

