

Download Software

Download the Nergy Sense Sensor Support Installation File from:

http://www.nergysense.com/download/NSSensorSupport.exe

Locate the downloaded file on your computer, and double-click to run



Install Downloaded File

The Unpack dialog will appear

Nergy Sense Power Usage Sensor Support (1.12)		×
Unpacking software		Unzip
Unzip to dir:		Close
c:\temp-ns	Browse	

Click 'Unzip' to continue.

Windows Installer will launch automatically, and determine if your PC needs any additional support software to run the application.

Note: In many cases, Windows Installer will download and install Microsoft .Net Framework Version 4.5. This step requires an Internet connection, and it may take several minutes to complete. Follow the directions as displayed on your PC to complete this installation.

After supporting software is installed, your system may request that you restart. Restart and continue with the installation



Note: If, on restart, the following Installation dialog does not appear automatically, repeat the first step. Windows Installer will determine that the requirements have been met, and will continue with the software installation.

The Nergy Sense installation dialog will appear:

闄 NSSensor Support	
Welcome to the NSSensor Support Setup V	Yizard
The installer will guide you through the steps required to install NSSensor S	Support on your computer.
WARNING: This computer program is protected by copyright law and inter Unauthorized duplication or distribution of this program, or any portion of it, or criminal penalties, and will be prosecuted to the maximum extent possibl	mational treaties. , may result in severe civil le under the law.
Cancel < Bac	k Next >

Click 'Next' to continue.

The Installation Folder dialog will appear.



🛃 NSSensor Support	
Select Installation Folder	
The installer will install NSSensor Support to the following folder.	
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".	
Eolder: C:\Program Files (x86)\Nergy Sense, LLC\NSSensor Support\	
Disk Cost	
Install NSSensor Support for yourself, or for anyone who uses this computer:	
Everyone	
🔘 Just me	
Cancel < Back Next >	

It is recommended that you leave all fields as they are. Click 'Next' to continue.

The confirmation dialog will appear.



B NSSensor Support		
Confirm Installation		
The installer is ready to install NSSensor Support on your computer.		
Click "Next" to start the installation.		
Cancel < Back	Next >	

Click 'Next' to proceed with installation.

The Progress dialog will appear



号 NSSensor Support		
Installing NSSensor Support		
NSSensor Support is being installed.		
Please wait		
Cancel < <u>B</u> ack	<u>N</u> ext >	

Depending on your computer's security configuration, you may be asked to confirm installation

😗 User	Account Control	—	
\bigcirc	Do you want to allow the following program from an unknown publisher to make changes to this computer?		
	Program name: Publisher: File origin:	C:\tempnssensorsupport\NSSensor.msi Unknown Hard drive on this computer	
🕑 Sł	Show details		
		Change when these notifications appear	

Click 'Yes' to continue.



On completion, a Confirmation dialog will appear

B NSSensor Support	
Installation Complete	
NSSensor Support has been successfully installed.	
Click "Close" to exit.	
If this a new installation, use the shortcuts in the Nergy Sense program folder to install Python and the USB Dongle drivers.	
Cancel < Back Close	

Click 'Close', and then 'Close' on the Unpacking dialog – which remains open during installation.



If you are upgrading an existing installation, you are done. If this is a new installation, continue with the following steps

For first time installations, USB communications dongle driver and python software must also be installed. Use the following steps to perform those installations.

Install Python Support Software

Now, click the 'Start' button on your PC, and then 'All Programs'



Find the 'Nergy Sense' Program Group, and then click to open it:



Click on 'Installation' to expand the sub group:



Then 'Nergy Sense' and then 'Installation'



Install Serial Communications Support Software

Install USB Dongle Driver

Do this one time. Upgrades to Nergy Sense software do not require this step to be repeated.

The following steps are only required if you plan to use the PC to communicate with Nergy Sense Power Usage Sensors.

Now, click the 'Start' button on your PC, and then 'All Programs'

Then 'Nergy Sense' and then 'Installation'



Click 'USB Communications Driveer Install'

Depending on your PC configuration, you may be propted to confirm the installation.



🚱 User Account Control 🛛 🕅	
Do you want to allow the following program to make changes to this computer?	
Program name: TI_WDF_USBUART_SINGLE_DRIVER_V6.7.2 Verified publisher: Texas Instruments, Inc. File origin: Hard drive on this computer	
Show details	
Change when these notifications appear	

Click 'Yes' to continue.

The Driver Installation dialog will appear

TI_WDF_USBUART_SINGLE_DRIVER_V6.7.2.0_WHQL				
🐳 Texas Instruments	Welcome to the Wizard for TI_WDF_USBUART_SINGLE_DRIV			
	The Wizard will allow to unpackage TI_WDF_USBUART_SINGLE_DRIVER_V6.7.2.0_WHQL. To continue, click Next.			
	Next > Cancel			

Click 'Next' to continue.





You must click 'I accept...' to continue Installation. Click the radio button, then 'Next' to continue.

TI_WDF_USBUART_SINGLE_DRIVER_V6.7.2.0_WHQL
Destination folder
TI WDF USBUART SINGLE DRIVER V6.7.2.0 WHOL,
Please select unpackage directory:
Destination Folder
ents Inc\TI_WDF_USBUART_SINGLE_DRIVER_V6.7.2.0_WHQL Browse
Space required: 4.2MB
Space available: 47.7GB
Nullsoft Install System v2.46
< Back Install Cancel

Make no changes on this dialog. Click 'Next' to continue.

Installation will occur, and the Finish dialog will appear



TI_WDF_USBUART_SINGLE_	DRIVER_V6.7.2.0_WHQL	
🜵 Texas Instruments	Wizard Completed	
	The wizard has successfully unpackage TI_WDF_USBUART_SINGLE_DRIVER_V6.7.2.0_WHQL. Click Finish to exit the wizard.	
	☑ Open installation folder upon exit.	
	< Back Finish Cancel	

Do not change settings on this dialog. Click 'Finish' to close the dialog, and open the Installation folder.

🕥 🜍 🚽 🕨 Computer 🔸 Local Disk (C:) 🔸 Program Files (x86) 🔸 Texas Instruments Inc 🔸 TI_WDF_USBUART_SINGLE_DRIVER_V6.7.2.0_WHQL 🕨						
Organize 🔻 🖬 Open	New folder					
🔆 Favorites	Name	Date modified	Туре	Size		
🧾 Desktop	퉬 32-bit	6/11/2015 3:30 PM	File folder			
鷆 Downloads	퉬 64-bit	6/11/2015 3:30 PM	File folder			
🖳 Recent Places	EICENSE	7/20/2007 4:31 PM	Rich Text Docume	57 KB		
	🕞 Setup	4/1/2013 6:36 PM	Application	156 KB		
🥃 Libraries	🎯 uninstall	6/11/2015 3:30 PM	Application	80 KB		
Documents						
👌 Music						
Pictures						
H Videos						
🖳 Computer						

In the folder dialog, double-click on 'Setup' to complete driver installation.

Depending on your system configuration, you may need to confirm installation.



😌 User Accoun	t Control		—	
Do yo chang	u want to allow Jes to this compu	the following program to mai uter?	œ	
	Program name: Verified publisher: File origin:	TUSB3410 Texas Instruments, Inc. Hard drive on this computer		
Show deta	ils	Yes		
		Change when these notifications	<u>appear</u>	

Click 'Yes' to continue.

🗊 TUSB3410 Driver Installer 6.7.2.0 Setup					
V Texas Instruments	Welcome to the TUSB3410 Driver Installer Setup Wizard				
	This wizard will guide you through the installation of TUSB3410 Driver Installer.				
	It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer. Click Next to continue.				
	Next > Cancel				

Click 'Next' to continue.





You must click 'I accept...' before clicking 'Next' to continue.

TUSB3410 Driver Installer 6.7.2.0 Setup	
Choose Install Location Choose the folder in which to install TUSB3410 Driver Installer.	-U
Please select your installation directory:	
Destination Folder C:\Windows\tiinst	Browse
Space required: 0.0KB Space available: 47.7GB Texas Instruments Inc	al Cancel

Do not change settings on this dialog. Click 'Install' to continue. On completion, a dialog appears. Click 'Finish' to close, and then close the Windows Explorer where 'setup' is displayed.



🕞 TUSB3410 Driver Installer 6	7.2.0 Setup	
😲 Texas Instruments	Completing the TUSB3410 Driver Setup Wizard	
- <i>İ</i>	TUSB3410 Driver has been installed on your computer. Click finish to close this wizard	
	< Back Finish Cancel	



Launch Nergy Sense Sensor Support Software

Plug your USB Communications dongle into a USB port on your PC, and wait about 60 seconds (Only necessary the first time you use the dongle. allows your PC to initialize the driver software)

Locate the Nergy Sense icon on your Desktop.



Double-Click to launch the program.

Y Nergy Sense, LLC Power Usage Sensor Analysis	
Fi 🌠 Nergy Sense, LLC 🛛 💌	
C Nergy Sense Power Usage Sensor Support Software	
S Transfer data from a sensor.	Scan Ports
Prepare Prepare a sensor for testing	0 💼 🕅 Read Range
Review Review an existing sensor project	Data from Sensor
or Continue Continue to program Stop showing this dialog	ple Frequency / Enable 12 Volt
Reprogram Reprog	gram Sensor
Change ID Chang	e Sensor ID
Calibrate Calibra	ition Parameters
Sensor Data File:	



Y Nergy Sense, LLC Power Usage Sensor Analysis	
Comms Detailed Chart Daily Chart Daily Summary Charging	
Sensor Communications Start Stop Com Port not identified Find Sensors Start Streaming	
Sensors	Read Transfer Data from Sensor
ID Freq. Events Volt. Cur. Temp. Vers	Freq Set Sample Frequency / Enable 12 Volt Freq (1 to 1800 secs) 0 • Erase Erase Sensor Data
Sensor Data File:	

Click on 'Continue to proceed to the main program dialog.

The Comms Tab is opened. With the communications dongle attached to the USB port, click 'Start' to launch comms.

Your communications dongle will be located automatically.

When Comms is established, the dialog will be updated to reflect the connected status.



探 Nergy Sense, LLC Power Usage Sensor An	alysis	– 🗆 X
File Edit Reports About		
Comms Detailed Chart Daily Chart Daily	Summary Charging	
Sensor Communications Start	Stop Port: COM3 Versi	on 1.9
Find Sensors Stream		
Sensor	:	Read Transfer Data from Sensor
ID Freq. Events Volts Cu	. Temp. LT Events \	/ers. Freq Change Sampling
62 1 36936 41.07 0.0	38 0 2	2.11 Free (1 to 1900 secs) 1 Freable 12 Volt?
		Erase Erase Sensor Data
4		
Communications Version 1.55		
Sensor Data File: C\Users\XPS 8700\Do	uments\log 62 04202017 10	1426 csv
	amenta (log_02_04202017_10	

If you do not have a sensor powered on and in range, then apply power to an Nergy Sense Power Usage Sensor, and confirm the LEds in the unit are flashing.

Click 'Find Sensors' in the dialog, and the sensor will be found and listed.



🏏 Nergy	y Sense, L	LC Power l	Jsage Sens	or Analy	sis			- 🗆 X
File Edit	t Report	s About				🗗 🖡		
Comms	Detailed	Chart Da	ily Chart	Daily S	ummary	Charging		
Sensor C	ommunic	ations	Start	St	op P	ort: COM3 V	ersion 1.9	
Find Se	ensors	Stre	am					
			Sei	sors				Read Transfer Data from Sensor
ID	Freq.	Events	Volts	Cur.	Temp.	LT Events	Vers.	Freq Change Sampling
62	1	36264	41.07	0.0	38	0	2.11	Freq (1 to 1800 secs)
								Erase Sensor Data
<							>	
Senso	r Data File							





🏏 Nerg	jy Sense,	LLC Power	Usage Sens	or Analy	sis			
File Ed	it Repo	rts About						
Comms	Detailed	d Chart Da	ily Chart	Daily S	ummary	Charging		
Sensor (Commun	ications	Start	St	op F	Port: COM3 V	ersion 1.9	
Find S	ensors	Stre	am					
		2	Se	nsors				Read
ID	Freq.	Events	Volts	Cur.	Temp.	LT Events	Vers.	Freq
62	1	36936	41.07	0.0	38	0	2.11	From (1 to 1
								Erase

For each sensor in range, one line will appear in the Sensors List

To read data from a sensor, click on it in the list



🏏 Nerg	jy Sense,	LLC Power l	Jsage Sens	or Analy	sis				
File Ed	it Repo	rts About							
Comms	Detailed	d Chart 🛛 Da	ily Chart	Daily S	Summary	Charging			
Sensor (Sensor Communications Start Stop Port: COM3 Version 1.9								
Find S	ensors	Stre	am						
	-	-	Ser	isors		_		R	
ID	Freq.	Events	Ser Volts	nsors Cur.	Temp.	LT Events	Vers.	Ri Fi	
ID 62	Freq.	Events 36936	Ser Volts 41.07	nsors Cur. 0.0	Temp. 38	LT Events 0	Vers. 2.11	Ri Fi	
ID 62	Freq.	Events 36936	Ser Volts 41.07	Cur.	Temp. 38	LT Events 0	Vers. 2.11	R F Freq (1 1	
ID 62	Freq.	Events 36936	Ser Volts 41.07	Cur.	Temp.	LT Events 0	Vers. 2.11	R F Freq (1 1 Er	

And then click 'Read'. A sensor file will be created automatically if possible. If not, you will be prompted to provide a file name.

Observe the transfer status as updated in the status boxes at the bottom of the dialog



Sensor	⁻ Support	Software	Installation	Notes
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🏏 Nergy Sense, LLC Power Usage Sensor Analysis								
File Edit Reports About								
Comms Detailed Chart Daily Chart Daily Summary Charging								
Sensor Communications Start Stop Port: COM3 Version 1.9								
Find Sensors Stream								
Sensors	Rea							
ID Freq. Events Volts Cur. Temp. LT Events Vers.	Free							
62 1 36936 41.07 0.0 38 0 2.11								
ζ	Freq (1 to Eras							
Tens (ender 702 - 6 20025 2 19/								
Transferring 783 of 36935 2.1%								
Sensor Data File: C:\Users\XPS 8700\Documents\log_62_04202017_101426.cs	5V							

When the transfer completes, you will be prompted to create a project using the data. Answering 'Yes' invokes the Project Create dialog:

Note: A sensor data file contains raw data. A Project file uses the raw data and your definitions to produce reports and analysis. The Project is where you identify the project details, like battery capacity, customer etc.



뚣 Nergy Sense, LL	C Power Usage Sensor Analysis	_
File Edit Reports	About	
Comms Detailed C	hart Daily Chart Daily Summary Charging	
Sensor Communica	tions Start Stop Port: COM3 Version 1.9	
Find Sensors	Stream	
	Sensors	Read Transfer Data from Se
ID Freq. 62 1	Events Volts Cur. Temp. LT Events Vers. 36936 41.07 0.0 38 0 2.11	Freq Change Sampling
		Freq (1 to 1800 secs)
Tra	nsfer complete	× Erase Sensor Data
(Transfer complete - Events: 36935 Messages Retried: 1 E (minutes): 2.1. Create a new project using this sensor lo	ilapsed time g file?
	Yes	No
<	>	
Transferring 3655	3 of 36935 99%	
Sensor Data File:	C:\Users\XPS 8700\Documents\log_62_04202017_101426.cs	v

Click 'Yes' to open the Project dialog and create a Project.



Sensor	⁻ Support	Software	Installation	Notes
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		THE INE
뚣 New Project	:	×
* Project Name:		
* Sensor Data:	C:\Users\XPS 8700\Documents\log_62_04202017_101426.csv	
Customer:		7
Battery Voltage:	36 Volts Capacity: 1000 🖨 AHRs	Ĺ
Note:		
🔄 Treat all d	ata as continuous * = Required dat	a
	OK Cancel	

You must enter at least a project name to proceed. Click 'OK' to continue.

You will be prompted to confirm the name of the sensor data file. Click 'Yes' to continue

Confirm Sensor File	\times
Project: Test Project - Load sensor data from C:\Users\XPS 8700\Documents\log_62_04202017_101426.csv?	
Yes <u>N</u> o	

And then confirm the Project File name. The default name is created automatically and is based on the Project Name you defined. Click 'Save' to continue.



Save As	2					Х
← → · ↑ 🖺 > Thi	is PC → Local Disk (C:) → Users → XPS 8700 →	Documents	✓ Ö Sea	rch Documents		9
Organize 👻 New folde	r					?
🕂 Downloads 🖈 ^	Name	Date modified	Туре	Size		^
🚆 Documents 🖈 🔤	aa.nsp	4/20/2017 9:56 AM	NSP File	3,366 KB		
📰 Pictures 🛛 🖈	aa-utc-03.nsp	3/31/2017 8:30 AM	NSP File	2,356 KB		
🝐 Google Drive 🖈 🗸	aa-utc.nsp	3/31/2017 8:27 AM	NSP File	2,356 KB		~
File <u>n</u> ame: Test P	roject.nsp					~
Save as <u>t</u> ype: Nergy	Sense Project (*.nsp)					~
∧ Hide Folders				<u>S</u> ave	Cancel	

The sensor data will be loaded into the Project. You may see a dialog recommending a change in the selected battery voltage. The software makes a determination of the battery voltage based on the data and will report if its estimation and the project selection are different.

When the Project completes loading, you may browse amongst the tabs and reports to review the collected data.





The Project file is self-contained. You can copy only the Project file to other PCs with the software installed and use it. The sensor data file is no longer required.