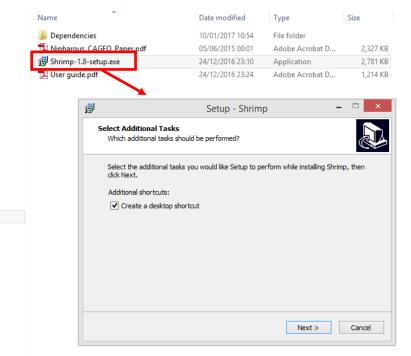


Niphargus & Shrimp User guide v2016

1. Shrimp setup



Before plugin a Niphargus for the first time, it is best to install the measurements downloading application "Shrimp". The installation is straightforward, and its duration will depend on the software components previously installed on the system. The Niphargus drivers (FTDI virtual serial port) will also automatically install at the end of the setup (see below). Follow the screen instructions to install the drivers.

FTDI CDM Drivers	×		
	FTDI CDM Drivers		
	Click 'Extract' to unpack version 2.12.00 of FTDI's Windows driver package and launch the installer.	Assistant Installation de pilotes	s de périphériques
$\langle \rangle$			Fin de l'Assistant Installation de pilotes de périphériques
			Les pilotes ont été installés sur cet ordinateur.
ШК			Vous pouvez connecter votre périphérique à cet ordinateur. Si votre matériel est accompagné d'un manuel d'emploi, lisez-le auparavant.
			Nom du pilote Statut
	www.ftdichip.com		FTDI CDM Driver Packa Prêt à l'emploi FTDI CDM Driver Packa Prêt à l'emploi
	< Back Extract Cancel		< <u>P</u> récédent Teminer Annuler

Once installed, Shrimp icon look like this :

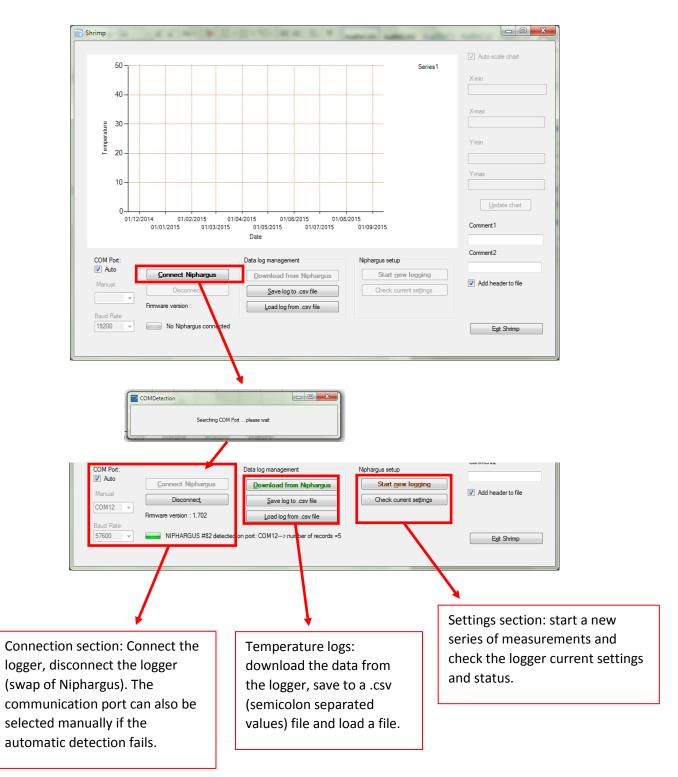


You can now plug-in a Niphargus and start the program. The first plug-in of a Niphargus on an new computer can take a few seconds ("new hardware detected" pop-up). Once the "new hardware" is installed properly, the Niphargus is ready to use.



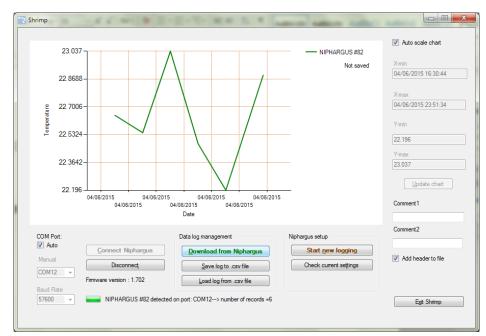
2. Connect a Niphargus to Shrimp

Once shrimp has started, click on "Connect Niphargus" to initiate the communication with the logger, Shrimp will then scan the computer communication ports to detect a Niphargus. If the detection fails, maybe the Niphargus is still not ready to communicate, wait a few seconds and retry. Wait typically 2-3 seconds between the plug-in of a Niphargus in the USB port and the connection in Shrimp.



3. Download a log from the Niphargus

Once connected, click on "Download from Niphargus" to download the recorded data. The download can take up to 40sec if the memory is full (26000 date-time-temperature values). Once downloaded, a preview of the data appears on the chart. You can then save the data by clicking on "Save the log to .csv file". The csv file is a semicolon separated value file than can be opened in excel. Temperature values are expressed in °C with decimal separated with a point.



Tip: If Excel does not separate correctly the columns, you can set regional parameters (in Windows Control Panel – Language and Region – Additional settings).

sper 🔗 Région et langue	Calibri (Corn x 11 x A* A* Aa x Aa x A	Ę.	5	Personnaliser le format	×
	Claviers et langues Administration			Nombres Symbole monétaire Heure Date	
Format : Anglais (Royaume-Uni)		Person Nonbres		Exemples Positif : 123,456,789.00 Négatif :	-123,456,789.00
Formats de date et d'	heure	Positif		Symbole décimal :	
Date longue :	jj MMM aaaa	Syr No Syr		Nombre de décimales :	2 •
Heure courte : Heure longue :	HH:mm	Syn For All		Symbole de groupement des chiffres : Groupement des chiffres :	, • 123,456,789 •
Premier jour de la semaine : Que signifie la notation	Monday	Set Syn Ch	5 5 2	Symbole du signe négatif : Format de nombre négatif :	- •
Exemples Date courte : Date longue :	05/06/2015 05 June 2015	Cliquez défault et les d		Afficher les zéros en en-tête : Séparateur de listes : Système d'unités de mesure :	0.7 V
	23:01 23:01:20	, an		Chiffres standard :	0123456789
Paramètres supplémentaires Informations en ligne sur la modification des langues et des formats. OK Anuder Appliquer				Utiliser les chiffres natifs : Cliquez sur Réinitialiser pour restaurer les paramètr défaut pour les nombres, les symboles monétaires, et les dates.	
		9			OK Annuler Appliquer

Decimal symbol should be set to point ".", and list separator set to semicolon ";"

Typical log file should look like this :

A header with metadata on the recordings,3 columns with date-time stamps, measured temp (raw values), corrected values (calibration made with a precision thermistor at 10°C)

1	<header></header>					
2		<id-niphargus>NIPHARGUS #82<td>IS></td></id-niphargus>				IS>
3			<date_on>4/6/2015</date_on>			
4			<interval>3600</interval>			
5			<voltage>3.066 V</voltage>			
6			<number_records_median>10<td>s_median></td></number_records_median>			s_median>
7			<number_of_records>6</number_of_records>			
8			<firmware version="">1.702</firmware>			
9						
10	<comment1><td>/MENT1></td><td></td><td></td><td></td><td></td></comment1>	/MENT1>				
	<comment2><td>ANACAITON .</td><td></td><td></td><td></td><td></td></comment2>	ANACAITON .				
11	«COMMENTZ»«/COM	INICIAL 22				
11 12	<comment2><td>MMENT2></td><td></td><td></td><td></td><td></td></comment2>	MMENT2>				
12		respond to a calibrated/c	corrected temperature	values vs a th	nermistor at 1	0 Celsius de
12 13	(*) These values con				nermistor at 1	0 Celsius de
12 13	(*) These values con	respond to a calibrated/c			nermistor at 1	0 Celsius de
12 13 14 15	(*) These values con The correction for t	respond to a calibrated/c			nermistor at 1	0 Celsius de
12 13 14 15	(*) These values con	respond to a calibrated/c			nermistor at 1	0 Celsius de
12 13 14 15 17 18	(*) These values con The correction for th DateTime 04/06/2015 17:30	respond to a calibrated/c his Niphargus probe was MeasuredTemp 22.649	measured to: 0.108 Cel		nermistor at 1	0 Celsius de
12 13 14 15 17 18 19	(*) These values con The correction for th DateTime	respond to a calibrated/c his Niphargus probe was MeasuredTemp 22.649	measured to: 0.108 Cel CorrectedTemp(*) 22.757		nermistor at 1	0 Celsius de
12 13 14 15 17 18	(*) These values con The correction for th DateTime 04/06/2015 17:30	respond to a calibrated/c his Niphargus probe was MeasuredTemp 22.649 22.544	measured to: 0.108 Cel CorrectedTemp(*) 22.757 22.652		nermistor at 1	0 Celsius de
12 13 14 15 17 18 19 20 21	(*) These values con The correction for th DateTime 04/06/2015 17:30 04/06/2015 18:30	respond to a calibrated/c nis Niphargus probe was MeasuredTemp 22.649 22.544 23.037	measured to: 0.108 Cel CorrectedTemp(*) 22.757 22.652 23.145		nermistor at 1	0 Celsius de
12 13 14 15 17 18 19 20	(*) These values con The correction for th DateTime 04/06/2015 17:30 04/06/2015 18:30 04/06/2015 19:30	respond to a calibrated// nis Niphargus probe was MeasuredTemp 22.649 22.544 23.037 22.477 22.195	measured to: 0.108 Cel CorrectedTemp(*) 22.757 22.652 23.145 22.585		nermistor at 1	0 Celsius de

3. Start a new measurement with the Niphargus

To start a new series of measurements, click on "Start new logging". The following box appears to choose a measurement interval. For each interval choice, the maximum duration of measurements before the Niphargus memory if full is calculated (end of measurement date-time). Note that Calendar and advanced setting tabs are not yet implemented.

	Timespan
	Interval Calendar Advanced settings
	Interval: 0 - Seconds 20 - Minutes 0 - Hours 0 - Days Measurements until: Thursday 03/12/2015 12:44:06
	<u>C</u> ancel <u>Start</u>
L	
	Started X Niphargus is recording with a timestep of 1200 sec

Tips :

- Minimal measurement interval for this version of the Niphargus is 5 seconds, if a shorter interval is chosen, Niphargus will automatically switch to 5 seconds interval.

- The Niphargus only start to record temperature once unplugged (led flash every 10 seconds). Avoid keeping the logger plugged on the USB port for a long time, it will drain the battery quicker.

- A new series of measurements automatically erase the previous data recorded by the Niphargus! Be sure to save the previous log to a file before starting a new measurement!

