TOPLINK 2 Maintenance Software



User manual

nke - Racing Z.I. Kerandré - Rue Gutenberg - 56700 HENNEBONT- FRANCE http://www.nke.fr - Customers Support:



TOPLINK 2 SOFTWARE

Version 2.0.11

Contents

	Contents	1
1.	Software presentation	2
2.	Installing the software	2
3.	<u>Setting up the software</u>	6
4.	<u>Commissioning</u>	7
5.	Analysis of the different Operating Modes	10
6.	Firmware update for Topline devices	11
7.	Help to diagnosis	13
7.	1 Saving the cookies	13
7.	2 Saving a file	14
8.	Recording the TOPLINE Bus	15
8.	1 "Record" procedure	16



TOPLINK 2 SOFTWARE

1. Software presentation

"TOPLINK 2" is a maintenance software for Topline instruments designed to run under Windows on a PC.

TOPLINK 2 provides the following functions:

- Topline devices firmware update
- Reading cookies installed on Topline devices
- Data logging of the TOPLINE Bus data for further analysis

This software is restrained so that the various functions are only available for specified authorisation levels. 3 Modes are set up: Normal (the most restrained), Expert, Administrator (the most complete). Activation keys given by nke allow access to the different modes.

Connection of the PC to the **TOPLINE Bus is done via a USB port linked to the nke WiFi box (part n. 90-60-538).**

2. Installing the software

Download the toplink file from the following address: <u>https://www.nke-marine-electronics.fr/acces-technique/</u> Password: "prive"

Double-click on the executable file "ToplinkSetup.exe": The installation will start. Follow the instructions at each step of the installation.

Choose a language:





TOPLINK 2 SOFTWARE

Start the installation:



Choose the installation path:

Dossier de destination		
Où Toplink2 doit-il être instal	é?	Ċ
L'assistant va instal	ler Toplink2 dans le dossier suivant.	
Pour continuer, cliquez sur S cliquez sur Parcourir.	uivant. Si vous souhaitez choisir un o	dossier différent,
C:\Program Files (x86)\nke\	Toplink2	Parcourir
	aine () 1 Me d'econes disque dispensio	1e



TOPLINK 2 SOFTWARE

Shortcut the Start menu:

Installation - Toplink2		
Sélection du dossier du menu Où l'assistant d'installation doit	Démarrer il placer les raccourcis du pr	ogramme ?
L'assistant va créer le Démarrer indiqué ci-de Cliquez sur Suivant pour contin	s raccourcis du programme d essous. uer. Cliquez sur Parcourir si	dans le dossier du menu vous souhaitez sélectionner
un autre dossier du menu Dém Toplink2	arrer.	Parcourir

Additional tasks: Tick "Create an icon on the deskstop" and "USB interface's pilot":

Tâches supplémentai	res	_	5
Quelles sont les taches	s supplementaires qui doivent	être effectuées ?	
Sélectionnez les tâche pendant l'installation d	s supplémentaires que l'assista le Toplink2, puis diquez sur Su	ant d'installation doit effectuer ivant.	
Icônes supplémentaire	25 :		
V Créer une icône s	ur le Bureau		
📝 Pilotes de l'interfa	ice USB		
🔲 Pilotes de l'interfa	ice série		

Ready to install:



TOPLINK 2 SOFTWARE

Version 2.0.11

Prêt à installer		
L'assistant dispose à présent de toutes les informations pour installer Toplink sur votre ordinateur.	2	Ċ
Cliquez sur Installer pour procéder à l'installation ou sur Précédent pour revo modifier une option d'installation.	ir ou	
Dossier de destination : C:\Program Files (x86)\nke\Toplink2		*
Dossier du menu Démarrer : Toplink2		
Tâches supplémentaires : Icônes supplémentaires : Créer une icône sur le Bureau Pilotes de l'interface USB		
×	•	Ŧ

End of installation:

19 Installation - Toplink2	
	 Fin de l'installation de Toplink2 sur votre ordinateur. L'application peut être lancée à l'aide des icônes créées sur le Bureau par l'installation. Veuillez diquer sur Terminer pour quitter l'assistant d'installation. Voir Install_Windows_10_fr.pdf Voir Install_Windows_8.1_fr.pdf Voir Install_Windows_8_fr.pdf Voir Install_Windows_8_fr.pdf Voir Lisezmoi.txt
	Terminer





Once the installation program is closed, right-click on the Toplink icon the desktop. Select "Properties", and the "Compatibility" tab. Tick "Execute this program as Administrator" and confirm with "OK":



Initial start of Toplink 2:

Connect the computer to Internet and run Toplink. An automatic download process will start to retrieve the Topline database, updated firmwares, nke instruments manuals and the software. Once this is completed, the Toplink software is fully updated.



3. Setting up the software





USER MANUAL	TOPLINK 2 SOFTWARE	Version 2.0.11
-------------	--------------------	----------------

By clicking on the button, you open a settings window:

- "Boat name" is the field where you type the name of the boat, which will be used to name the various saved files.

- "Topline Communications: choose the COM or USB port from a scroll-down list. If no port is available, check the wiring of your interface and install the Topline USB port driver.

The drivers are available at the following address: https://www.ftdichip.com/Drivers/D2XX.htm

To install the driver, follow the process described in the document related to your Windows version. Here below, you will find the path to access the documents. C:\Program Files (x86)\nke\Toplink2\Drivers

- "Update": Automatic updates are launched at each start of the software. Nevertheless, this function can be disabled by unticking "Allow automatic update".

Preterences Nom du bateau Communications topline Port utilisé Box nke 53535358 ✓ Utiliser les unités du réseau Déconnecter si rupture de liaison Maintenir la dernière donnée Version afficheur du driver PC 10	Unité de vitesse bateau C km/h Noeuds Unité de profondeur C Pieds Mètres Format d'affichage des num C Hévadécimal	Unité de vitesse vent C Noeuds C m/s Unité de température C °F C °C éros de canaux
Mise à jour Autoriser la mise à jour automatiqu	 Héxadécimal e (connexion au serveur FTP 	C Décimal nke)

4. Commissioning



USER MANUAL TOPLINK 2 SOFTWARE Version 2.0.11

Once the installation is completed, connect the PC to the Topline network via the nke WiFi box with its USB cable. Run TOPLINK 2. The following window opens:



Click on the Bus Connection button. 2 possibilities:

on

1 – No "Master" display on the Bus, or the "Master" display node has been set to "0", the following message appears.

Avertissement		
Aucune activité détectée sur le réseau, voulez-vous que le PC passe en mode maîti	re?	
<u>Oui</u> <u>N</u> on		Click "Yes"



USER MANUAL IOPLINK 2 SOFTWARE Version 2.0.1
--

to set the PC as "Master".

The following page appears: It lists all the devices connected to the Bus by displaying a tree where each element is displayed with:

- Name (according to the chosen language)
- Icon indicating the type

s.

	Afficheurs
10	Capteurs
and a	Interfaces
	Calculateurs
19	PC
6	Recepteur radio
	Télécommande

- Icon indicating if it can be edited
- Tree featuring the channels created by the related equipment

Value Value Zore Adresse Longueu Compas Fluxy 18 119h Cap magnétique rapide, r58* 119h Cap magnétique rapide, r58* 120h Cap magnétique rapide, r58* 120h Cap magnétique rapide, r58* 120h Cap magnétique rapide, r58* (3Dh) Cap magnétique 158* 7777 7777 BACKLIGHT_MODE 0000h 0001h 7777 7777 BACKLIGHT_MODE 0000ch 0001h 0001h 7777 7777 BACKLIGHT_MODE 0000ch 0001h 0001h 7777 7777 VINT_VITESE 0000ch 0001h 0001h 7777 7777 UNIT_VITESE 0000ch 0001h 001h 7777 7777 UNIT_VITESE 001ch 001h 001h 7777 7777 UNIT_VITESE 001ch 000	Mi:	se à jour Diagnostic	Informations			
1191 Comparing a Fight 777 777 CHCK 0000h 0001h 1191 Cap magnetique rapide 777 777 LAGUE 0002h 0001h 7777 7777 BACKLIGHT_MODE 0004h 0001h 0001h 7777 7777 PAGE 0006h 0001h 0001h 7777 7777 UNIT_PROFONDEUR 0006h 0001h 7777 7777 UNIT_ENPERATURE 0016h 0001h 7777 7777 ALSALPM 0016h	Company Elevente Elevel v1.9	aleur	Valeur brute	Zone	Adresse	Longueur
Item Lagneduce rapide	(10k) Con and a king and the second second	???	2222	CHECK	0000h	0001h
************************************	(15h) Cap magnetique rapide. 150	277	2222	LANGUE	0002h	0001h
???? ???? SKN 0006h 0001h ???? ???? ???? PAGE 0008h 0001h ???? ???? UNIT_WIESSE 0008h 0001h ???? ???? UNIT_PROFINDEUR 0000Ch 0001h ???? ???? UNIT_TEMPERATURE 0000Ch 0001h ???? ???? UNIT_TEMPERATURE 0010h 0001h ???? ???? ???? UNIT_TEMPERATURE 0001h 001h ???? ???? ???? PLOT_TYPE 001Ah 0001h ???? ???? ???? NMEA_BAUDRATE 001bh 001h ???? ???? ???? MASTER_START 001Ah 0001h ???? ???? ???? CHRONO_T2 001Eh 0001h ???? ???? ???? CHRONO_T2 001Eh 0001h ???? ???? ???? CHRONO_T2 001Eh 0001h ????? ???? ???? CHRONO_T2 001Eh 0001h ????? ???? ????	(3Dh) Cap magnetique. 158 7 777	222	7777	BACKLIGHT MODE	0004h	0001h
???? ???? PAGE 0008h 0011h ???? ???? ???? UNIT_VESSE 0006h 0011h ???? ???? UNIT_VESSE 0006h 0011h ???? ???? UNIT_VENT 0001h 001h ???? ???? PIOIT_YFE 0014h 001h ???? ???? ???? NMEA_BAUDRATE 001h 001h ???? ???? MASTER_START 0016h 001h ???? ???? CHRONO_T1 001ch 001h ???? ???? CHRONO_T22 002h 001h ???? ???? ???? UDGGER1	27	???	2222	SKIN	0006h	0001h
???? ???? UNIT_VTESSE 000Ah 0001h ???? ???? UNIT_VENT 000Ch 0001h ???? ???? UNIT_VENT 000Ch 0001h ???? ???? UNIT_VENT 000Ch 0001h ???? ???? TOPLINE_ADR 0012h 0001h ???? ???? TOPLINE_ADR 0012h 0001h ???? ???? PLOT_TYPE 0014h 0001h ???? ???? NMEA_BAUDRATE 0016h 0001h ???? ???? PLOT_TYPE 0014h 0001h ???? ???? ALS_ALAPM 0018h 0001h ???? ???? CHRONO_T1 001Ah 001h ???? ???? CHRONO_T2 001Eh 0001h ???? ???? CHRONO_T1 001Ch 001h ???? ???? CHRONO_T1 001Ch 001h ???? ???? ????? LOGGER3 002h <t< td=""><td>27</td><td>177</td><td>2222</td><td>PAGE</td><td>0008h</td><td>0001h</td></t<>	27	177	2222	PAGE	0008h	0001h
???? ???? UNIT_PROENDEUR 000Ch 0001h ???? ???? UNIT_VENT 000Eh 0001h ???? ???? UNIT_TEMPERATURE 0010h 0001h ???? ???? ???? PLOT_TMPE 0014h 0001h ???? ???? PLOT_TYPE 0014h 0001h ???? ???? NMEA_BAUDRATE 0016h 0001h ???? ???? MASTER_START 001ah 001h ???? ???? CHROND_T2 001Eh 0001h ???? ???? CHROND_T2 001Eh 0001h ???? ???? L0GGER3 0024h 0001h ???? ???? L0GGER3 0024h 0001h ???? ???? ???? L0GGER3 0024h 0001h ???? ???? ???? MASTER_D_ESTIME 002h 0001h ???? ???? ???? MASTER_A_ESTIME 002h 0001h ????	27	277	2222	UNIT VITESSE	000Ah	0001h
???? ???? UNIT_VENT 000Eh 0001h ???? ???? ???? TUPLINE_ADR 0012h 0001h ???? ???? TUPLINE_ADR 0012h 0001h 0001h ???? ???? ???? PILOT_TYPE 0012h 0001h 0001h ???? ???? PICA_TARA 0015h 0001h 0001h ???? ???? PICA_TARA 0016h 0001h ???? ???? PICADRATE 0116h 0001h ???? ???? PICADRATE 001Ch 0001h ???? ???? PICADRATE 002Ch 0001h ???? ???? ???? UDGGER3 002Ah 0001h ???? ???? ???? MASTER_D_ESTIMEP 002Ch	27	222	7777	UNIT PROFONDEUR	000Ch	0001h
???? ???? UNIT_TEMPERATURE 0010h 0001h ???? ???? TOPLINE_ADR 0012h 0001h ???? ???? PLOT_TYPE 0014h 0001h ???? ???? PLOT_TYPE 0014h 0001h ???? ???? NMEA_BAUDRATE 0018h 0001h ???? ???? MASTER_START 001Ah 0001h ???? ???? CHRONO_T2 001Eh 0001h ???? ???? CHRONO_T2 001Eh 0001h ???? ???? CLGGER1 0020h 0001h ???? ???? LOGGER3 0024h 0001h ???? ???? P??? MASTER_D_ESTIME 002h 0001h ???? ???? ???? MASTER_D_ESTIME 002h 0001h ???? ???? ???? MASTER_D_ESTIME 002h 0001h ???? ???? ???? MASTER_D_ESTIME 002h 0001h <td< td=""><td>27</td><td>272</td><td>2222</td><td>UNITVENT</td><td>000Eh</td><td>0001h</td></td<>	27	272	2222	UNITVENT	000Eh	0001h
???? ???? TOPLINE_ADR 0012h 0001h ???? ???? PILOT_TYPE 0014h 0001h ???? ???? NMEA_BAUDRATE 0014h 0001h ???? ???? NMEA_BAUDRATE 0018h 0001h ???? ???? AIS_ALARM 0018h 0001h ???? ???? MASTER_START 001Ah 0001h ???? ???? CHROND_T1 001Ch 0001h ???? ???? CHROND_T2 001Eh 0001h ???? ???? LOGGER1 0022h 0001h ???? ???? LOGGER3 0024h 0001h ???? ???? CHGOND_T2 002bh 0001h ???? ???? LOGGER4 002bh 0001h ???? ???? MASTER_A_ESTIME 002bh 0001h ???? ???? MASTER_A_ESTIME 002bh 0001h ????? ???? MASTER_A_ESTIME 002bh <t< td=""><td>27</td><td>277</td><td>7777</td><td>UNIT TEMPERATURE</td><td>0010h</td><td>0001h</td></t<>	27	277	7777	UNIT TEMPERATURE	0010h	0001h
???? ???? PLOT_TYPE 0014h 0001h ???? ???? NMEA_BAUDPATE 0016h 0001h ???? ???? ALS_ALARM 0018h 0001h ???? ???? MASTER_START 0014h 0001h ???? ???? MASTER_START 0014h 0001h ???? ???? CHROND_T2 0016h 0001h ???? ???? CHROND_T2 0001h 0001h ???? ???? CHROND_T2 0001h 0001h ???? ???? P??? L0GGER1 002h 0001h ???? ???? ???? L0GGER3 0024h 0001h ???? ???? ???? MASTER_D_ESTIME 0028h 0001h ???? ???? ???? MASTER_D_ESTIME 0024h 0001h ???? ???? ???? MASTER_D_ESTIME 0024h 0001h ???? ???? ???? MASTER_D_ESTIME 0034h	27	777	2222	TOPLINE ADB	0012h	0001h
???? ???? NMEA_BAUDRATE 0016h 0001h ???? ???? AIS_ALARM 0018h 0001h ???? ???? MASTER_START 0016h 0001h ???? ???? CHROND_T1 001Ch 0001h ???? ???? CHROND_T2 001Eh 0001h ???? ???? CHROND_T2 001Eh 0001h ???? ???? CHROND_T2 001Eh 0001h ???? ???? CHROND_T2 0001h 0001h ???? ???? L0GGER3 0024h 0001h ???? ???? MASTER_D_ESTIME 0028h 0001h ???? ???? MASTER_D_ESTIME 002Ah 0001h ???? ???? ???? MASTER_D_ESTIME 002Ah 0001h ???? ???? ???? MASTER_D_ESTIME 002Ah 0001h ???? ???? ???? MASTER_A_IDERIVE 003Ah 0001h ????	27	222	7777	PILOT TYPE	0014h	0001h
???? ???? AIS_ALARM 0018h 0001h ???? ???? MASTER_START 001Ah 0001h ???? ???? CHRONO_T1 001Ch 0001h ???? ???? CHRONO_T2 001Eh 0001h ???? ???? CHRONO_T2 001Eh 0001h ???? ???? CHRONO_T2 002h 0001h ???? ???? CHGOER2 0022h 0001h ???? ???? ???? LOGGER3 0024h 0001h ???? ???? ???? MASTER_D_ESTIME 0028h 0001h ???? ???? ???? MASTER_D_ESTIME 002Ah 0001h ???? ???? ???? MASTER_D_ESTIME	27	222	7777	NMEA BAUDBATE	0016h	0001h
???? ???? MASTER_START 001Ah 0001h ???? ???? CHROND_T1 001Ch 0001h ???? ???? CHROND_T2 001Eh 0001h ???? ???? CHROND_T2 001Eh 0001h ???? ???? CHGOND_T2 0020h 0001h ???? ???? CDGGER1 0020h 0001h ???? ???? CDGGER3 0022h 0001h ???? ???? CDGGER4 0026h 0001h ???? ???? MASTER_D_ESTIME 0028h 0001h ???? ???? MASTER_D_ESTIME 002ch 0001h ???? ???? MASTER_D_ESTIME 002ch 0001h ???? ???? MASTER_ALSTIME 0001h	22	222	2222	AIS ALARM	0018h	0001h
???? ???? CHROND_T1 001Ch 0001h ???? ???? CHROND_T2 001Eh 0001h ???? ???? CHROND_T2 001Eh 0001h ???? ???? L0GGER1 002h 0001h ???? ???? L0GGER3 0024h 0001h ???? ???? L0GGER4 002h 0001h ???? ???? L0GGER4 002h 0001h ???? ???? MASTER_D_ESTIME 002ah 0001h ???? ???? MASTER_D_ESTIME 003ah 0001h ???? ???? MASTER_A_DERIVE 003ah 0001h ???? ???? MASTER_CA_DERIVE 003ah	27	222	2222	MASTER START	001Ah	0001h
???? ???? CHROND_T2 ODIE ODDIA ???? ???? LDGGER1 0020h 0001h ???? ???? LDGGER2 0022h 0001h ???? ???? LDGGER3 0024h 0001h ???? ???? LDGGER4 0025h 0001h ???? ???? RASTER_D_ESTIME 0022h 0001h ???? ???? MASTER_D_ESTIME 0030h 0001h ???? ???? MASTER_D_ESTIME 0032h 0001h ???? ???? ???? MASTER_D_ESTIME 0036h 0001h ???? ???? ???? MASTER_D_CA_MOSAH 0001h ???? ???? MASTER_	22	222	7777	CHBONO T1	001Ch	00016
???? ???? L0GGER1 0020h 0001h ???? ???? L0GGER2 0022h 0001h ???? ???? L0GGER3 002h 0001h ???? ???? L0GGER4 0026h 0001h ???? ???? L0GGER4 0026h 0001h ???? ???? MASTER_D_ESTIME 0028h 0001h ???? ???? MASTER_LESTIME 002ch 0001h ???? ???? MASTER_LESTIME 002ch 0001h ???? ???? MASTER_LESTIME 002ch 0001h ???? ???? MASTER_LA_ESTIME 003ch 0001h ???? ???? MASTER_ALDERIVE 003ch 0001h ???? ???? MASTER_CA_DERIVE <	22	222	2222	CHBONO T2	001Eb	00016
???? ???? L0GGER2 002h 000h ???? ???? L0GGER3 0024h 0001h ???? ???? L0GGER4 002h 0001h ???? ???? L0GGER4 002h 0001h ???? ???? MASTER_D_ESTIME 002ch 0001h ???? ???? MASTER_D_ESTIME 002ch 0001h ???? ???? MASTER_D_ESTIME 003ch 0001h ???? ???? MASTER_AL_DERIVE 003ch 0001h ???? ???? ???? MASTER_CA_MO3Ah 0001h ???? ???? ???? MASTER_CA_MO3Ah 0001h ???? ???? ???? MASTER_AL_DERIVE 003Ah 0001h ???? ???? ???? <td>22</td> <td>777</td> <td>2222</td> <td>LOGGER1</td> <td>00206</td> <td>00016</td>	22	777	2222	LOGGER1	00206	00016
???? ???? L0GGER3 0024h 0001h ???? ???? L0GGER4 0026h 0001h ???? ???? MASTER_D_ESTIME 0028h 0001h ???? ???? MASTER_A_ESTIME 0022h 0001h ???? ???? MASTER_D_ESTIME 002ch 0001h ???? ???? MASTER_D_ESTIME 002ch 0001h ???? ???? MASTER_D_ESTIMEP 002ch 0001h ???? ???? MASTER_A_ESTIMEP 003ch 0001h ???? ???? MASTER_CA_DERIVE 003ch 0001h ???? ???? MASTER_CA_DENVE 003ch 0001h ???? ????	22	222	2222	LOGGEB2	0022h	0001h
???? ???? LOGGER4 0026h 0001h ???? ???? MASTER_D_ESTIME 0028h 0001h ???? ???? MASTER_D_ESTIME 0028h 0001h ???? ???? MASTER_D_ESTIME 0028h 0001h ???? ???? MASTER_D_ESTIME 002ch 0001h ???? ???? MASTER_D_ESTIMEP 002ch 0001h ???? ???? MASTER_D_ESTIMEP 003ch 0001h ???? ???? MASTER_AL_DERIVE 003ch 0001h ???? ???? MASTER_BA_DERIVE 003ch 0001h ???? ???? MASTER_CA_DERIVE 003sh 0001h ???? ???? MASTER_CA_DERIVE 003sh 0001h ???? ???? MASTER_CA_DERIVE 003sh 0001h ???? ???? MASTER_AB_VVV 003ch 0001h ???? ???? MASTER_B_AVV 003ch 0001h ???? ???? <	22	222	7777	LOGGEB3	0024h	00016
???? ???? MASTER_D_ESTIME 0028h 001h ???? ???? MASTER_A_ESTIME 0024h 001h ???? ???? MASTER_A_ESTIME 0024h 001h ???? ???? MASTER_D_ESTIME 0024h 0001h ???? ???? MASTER_D_ESTIME 0024h 0001h ???? ???? MASTER_D_ESTIME 0024h 0001h ???? ???? MASTER_D_ESTIME 002ah 0001h ???? ???? MASTER_A_ESTIME 003ah 0001h ???? ???? MASTER_A_EDERIVE 003ah 0001h ???? ???? MASTER_CA_CBRIVE 003ah 0001h ???? ???? MASTER_CA_CMG 003ah 0001h ???? ???? ???? MASTER_CA_CMG 0001h ???? ???? ???? 003ah 0001h ????? ????? MASTER_D_AVV 003ch 0001h ????? ????? MASTER_	22	222	2222	LOGGEB4	0026h	00016
7777 7777 MASTER_A_ESTIME 002h 0001h 7777 7777 MASTER_CDNFIG 002ch 0001h 7777 7777 MASTER_CDNFIG 002ch 0001h 7777 7777 MASTER_D_ESTIMEP 002ch 0001h 7777 7777 MASTER_D_ESTIMEP 003ch 0001h 7777 7777 MASTER_A_ESTIMEP 003ch 0001h 7777 7777 MASTER_CA_DENIVE 003ch 0001h 7777 7777 MASTER_AB_VVV 003ch 0001h 7777 7777 MASTER_FO_AVV 003ch 0001h 7777 7777 MASTER_FO_AVV 003ch 0001h 7777 7777	22	222	2222	MASTER D ESTIME	0028h	00016
7??? 7??? MASTER_CONFIG 002ch 0001h ???? ???? MASTER_D_ESTIMEP 002ch 0001h ???? ???? MASTER_AL_STIMEP 003ch 0001h ???? ???? MASTER_AL_STIMEP 003ch 0001h ???? ???? MASTER_AL_DERIVE 003ch 0001h ???? ???? MASTER_BA_DERIVE 003ch 0001h ???? ???? MASTER_CA_DERIVE 003sh 0001h ???? ???? MASTER_AB_VVV 003sh 0001h ???? ???? MASTER_BA_WV 003ch 0001h ???? ???? MASTER_BA_WV 003ch 0001h ???? ???? MASTER_BA_WV 003ch 0001h ????? ?????	22	222	2222	MASTER & ESTIME	00201	0001h
???? ???? MASTER_D_ESTIMEP 002Lh 0001h ???? ???? MASTER_D_ESTIMEP 0032h 0001h ???? ???? MASTER_A_ESTIMEP 0032h 0001h ???? ???? MASTER_A_ESTIMEP 0032h 0001h ???? ???? MASTER_A_ESTIMEP 0032h 0001h ???? ???? MASTER_BA_DERIVE 0034h 0001h ???? ???? MASTER_CA_DERIVE 0036h 0001h ???? ???? MASTER_CA_DERIVE 0038h 0001h ???? ???? MASTER_CA_DERIVE 0038h 0001h ???? ???? MASTER_AL_WV 003Ah 0001h ???? ???? MASTER_FO_AW 003Ch 0001h ???? ???? ???? MASTER_FO_AW 0001h ???? ???? ???? 0040h 0001h ???? ???? ???? 004h 0001h ????? ????? ????	22	222	2222	MASTER CONFIG	00256	0001h
TTT TTT MASTER_A_ESTINEP 0030h 0001h ???? ???? MASTER_AL_DERIVE 0032h 0001h ???? ???? MASTER_BA_DERIVE 0032h 0001h ???? ???? MASTER_BA_DERIVE 0032h 0001h ???? ???? MASTER_CA_DERIVE 0034h 0001h ???? ???? MASTER_CA_DERIVE 0038h 0001h ???? ???? MASTER_AB_VVV 003Ah 0001h ???? ???? MASTER_AB_VVV 003Ah 0001h ???? ???? MASTER_FO_AVV 003Ah 0001h ???? ???? MASTER_AB_VVV 003Ah 0001h ???? ???? MASTER_FO_AVV 003Eh 0001h ???? ???? MASTER_B_AVV 003Eh 0001h ???? ???? ???? 003Eh 0001h ???? ???? ???? DOUTA 001h ????? ???? ????	22	222	2222	MASTER D ESTIMER	002Eh	00016
7777 7777 MASTER_AL_DERIVE 0032h 0001h 7777 7777 MASTER_BA_DERIVE 0032h 0001h 7777 7777 MASTER_BA_DERIVE 0032h 0001h 7777 7777 MASTER_CA_DERIVE 0034h 0001h 7777 7777 MASTER_CA_DERIVE 0038h 0001h 7777 7777 MASTER_CA_CMG 0038h 0001h 7777 7777 MASTER_AH_VVV 003Ah 0001h 7777 7777 MASTER_AH_VVV 003Ah 0001h 7777 7777 MASTER_AA_VVV 003Ch 0001h 7777 7777 MASTER_BA_AVV 0044h 0001h 7777 7777 TP_ON_TOTAL 0044h 0001h 7777 7777 FAB_MI	22	000	2222	MASTER A ESTIMER	00206	00016
7??? 7??? MASTER_BA_DERIVE 0034h 0001h ???? 7??? MASTER_CA_DERIVE 0036h 0001h ???? ???? MASTER_CA_DERIVE 0038h 0001h ???? ???? MASTER_CA_DERIVE 0038h 0001h ???? ???? MASTER_AH_VVV 003Ah 0001h ???? ???? MASTER_AH_VVV 003Ch 0001h ???? ???? MASTER_AH_VVV 003Ch 0001h ???? ???? MASTER_BA_AVV 003Ch 0001h ???? ???? MASTER_BA_AVV 003Ch 0001h ???? ???? MASTER_BA_AVV 0042h 0001h ???? ???? _TP_ON_TOTAL 0044h 0001h ???? ???? _FAB_MINSEC 0046h 0001h ???? ???? _FAB_HUJOUR 0044h 0001h ???? ???? _FAB_ANNMOIS 004ah 0001h	22	000	2222	MASTER AL DERIVE	00306	00016
7777 7777 MASTER_CA_DENIVE 0036h 0001h 7777 7777 MASTER_CA_DRIVE 0038h 0001h 7777 7777 MASTER_CA_CMG 0038h 0001h 7777 7777 MASTER_AL_VVV 003Ah 0001h 7777 7777 MASTER_AB_VVV 003Ah 0001h 7777 7777 MASTER_FO_AVV 003Eh 0001h 7777 7777 MASTER_FD_AVV 003Eh 0001h 7777 7777 MASTER_FD_AVV 003Eh 0001h 7777 7777 MASTER_FD_AVV 003Eh 0001h 7777 7777 MASTER_BA_AVV 0040h 0001h 7777 7777 TP_ON 0042h 0001h 7777 7777 TP_ON_TOTAL 0044h 0001h 7777 7777 FAB_HUJUR 0048h 0001h 7777 7777 FAB_HUJUR 0048h 0001h	22	000	2222	MACTED DA DEDIVE	00321	0001h
TTT TTTT TTT TTTT TTT TTT TTT TTT TTTT TTT TTTT TTTTT TTTTTT TTTTT TTTTTT TTTTT TTTTT TTTTT TTTTT TTTTT TTTTTT		000	2222	MASTER CA DEDIVE	00340	00016
7??? 7??? MASTER_AH_VVV 0036h 0001h ???? 7??? MASTER_AH_VVV 0036h 0001h ???? ???? MASTER_AB_VVV 0036h 0001h ???? ???? MASTER_FD_AVV 0036h 0001h ???? ???? MASTER_FD_AVV 0036h 0001h ???? ???? MASTER_BA_AVV 0040h 0001h ???? ???? _TP_ON 0042h 0001h ???? ???? _TP_ON_TOTAL 0044h 0001h ???? ???? _FAB_MINSEC 0046h 0001h ???? ???? _FAB_ANNMOIS 004ah 0001h	20		2222	MASTER_CA_DENIVE	00300	0001h
Tric Tric MASTER_AB_VVV 003Gh 0001h ???? Prize MASTER_FD_AB_VVV 003Gh 0001h ???? Prize Prize 0001h 0001h ???? Prize Prize 0001h 0001h ???? Prize Prize 0001h 0001h ???? ???? Prize 0004ah 0001h	20	111	2222	MASTER_CA_CMG	00300	0001h
7777 7777 MASTER_AG_VVV 003Ch 0001h 7777 7777 MASTER_FO_AVV 003Ch 0001h 7777 7777 MASTER_BA_AVV 0040h 0001h 7777 7777 TP_ON 0042h 0001h 7777 7777 TP_ON_TOTAL 0044h 0001h 7777 7777 TP_ON_TOTAL 0044h 0001h 7777 7777 FAB_MINSEC 0046h 0001h 7777 7777 FAB_HEUJOUR 0048h 0001h 7777 7777 FAB_HEUJOUR 0048h 0001h		(()))))	1111	MASIED_AD_VVV	003An 003Ch	0001h
Image: Problem Image:		111	2222	MASTER_AB_VVV	003Ch	00011
Crific Crific MASTER_BA_AVV Outloth Outloth ???? ???? TP_ON 0042h 0001h ???? ???? TP_ON_TOTAL 0044h 0001h ???? ???? FAB_MINSEC 0046h 0001h ???? ???? FAB_HAUMOUS 0044h 0001h ???? ???? FAB_HAUMOUS 004Ah 0001h ???? ???? FAB_HAUMOUS 004Ah 0001h		000	2222	MASTER_FU_AVV	003En	0001h
7777 7777 TP_ON_TOTAL 0042h 0001h 7777 7777 TP_ON_TOTAL 0044h 0001h 7777 7777 FAB_MINSEC 0046h 0001h 7777 7777 FAB_MINSEC 0048h 0001h 7777 7777 FAB_HEUJOUR 0048h 0001h 7777 7777 FAB_ANNMOIS 004Ah 0001h		((())))		MASTER_BA_AVV	0040h	0001h
7777 IPUNIUTAL 0044h 0001h ???? ??? FAB_MINSEC 0046h 0001h ???? ???? FAB_HEUJOUR 0048h 0001h ???? ???? FAB_HEUJOUR 0044h 0001h ???? ???? FAB_ANNMOIS 004Ah 0001h		(<u>(</u> (((()	IP_UN	0042h	0001h
Y??? AB_MINSEC 0046h 0001h ???? ???? AB_HEUJOUR 0048h 0001h ???? ???? FAB_ANNMOIS 004Ah 0001h	1 22	111	7777	IP_UN_IUTAL	0044h	0001h
7777 7777FAB_HEUQUUR 0048h 0001h 7777 7777FAB_ANNMOIS 004Ah 0001h		<i>111</i>	7777	FAB_MINSEC	0046h	0001h
???? ????FAB_ANNMOIS 004Ah 0001h	112		202	FAB_HEUJUUR	0048h	0001h
	112		1111	FAB_ANNMUIS	004Ah	0001h
1 2222 2222 BST MINSEC 004Ch 0001h	1.22	222	2222	RST_MINSEC	004Ch	00016
C Tout straichir B straichir coloration 🕅 Tout divisitiation		🕶 Tout istratobie	Ratiatiobic colocition	🕅 Tout cóinitialian		

2 – Presence of a "Master" on the Bus: the software starts. As a "Master" is already detected on the Bus, the PC remains as "Slave". The PC's status is indicated at the bottom of the page.



TOPLINK 2 SOFTWARE

Version 2.0.11

Maintenance Trace Base de données

Activité détectée sur le réseau, le PC reste en mode esclave...

5. Analysis of the different Operating Modes

<u>Normal Mode</u>

This is the default Mode. It allows to read the Topline Bus tree, updating the firmwares for all editable Topline devices and read the cookies installed on some instruments (read the raw value).

Expert Mode

Compared to Normal Mode, the Expert Mode allows reading true values in the cookies, reset the cookies, and save data from the Topline Bus (tracks).

Administrator Mode

Additionally to the Expert Mode, you can access the database.

The activation of the Expert and Administrator Modes can be done with a key provided by the nke Customer service. Keep the Toplink software running during the whole following process:

Click on the button for authorisation to toggle level, in the tool bar, and then on the "Manage private key" button, in the "Authorisation" window.

Autorisations 🛛 🔀
Générer clef privée
Clé privée générée : SDD23E0E
Clef publique :
🖉 OK 🔀 Annuler

Communicate that private key to the nke customer service so that they can send you the matching key. You will type this key in the "Public key" window to activate the new operating Mode for a given time.

6 operating modes settings are then available:

- 1 hour Expert Mode
- 1 day Expert Mode
- Unlimited Expert Mode



USER MANUAL	TOPLINK 2 SOFTWARE	Version 2.0.11
-------------	--------------------	----------------

- 1 hour Administrator Mode
- 1 day Administrator Mode
- Unlimited Administrator Mode

The keys used for a time limited Mode can be used only once. Authorised duration is for the total operational time of the given mode.

6. Firmware update for Topline devices

To update a device's firmware, the "Toplink2" application searches for a compatible file with the "nke" extension, located in <u>C:\Program files\Fichiers</u> communs\nke\Firmware.

The "nke" files are automatically placed in the "Firmware" folder when downloaded. In some cases, it is possible to copy and paste a "nke" file in that folder.

Procedure:

- Click on the device that needs an update, and then, click on the "Update" tab.
- Select the firmware to download;
- Click on "Download", then on "OK" (the download speed on a TOPLINE Bus is 115200 baud maximum, and 9600 baud minimum). Warning: It is strongly recommended to run the update of the Multigraphic or Multidisplay at 115200 baud (allow 20 minutes for that task).

chier Réseau Options Langue Aide				
) 🗄 🖸 🔒 📲 🖏 🔦 📴 📗 📕				
Compas Fluxgale Flash VI.8 Compas Fluxgale Flash VI.8 (19) Cap magnitude replice. 158" (30h) Cap magnitude 158 *	Mise à jour Diagnos Firmwares disponibles Description Multigraphic Multigraphic Multigraphic Multigraphic Multigraphic Multigraphic	tic Informations 2.3 2.4 Téléchargement à 115200 bauds Choisissez une vitesse de télécharg pour commencer la mise à jour Téléchargement de télécharg pour commencer la mise à jour Téléchargement de télécharg pour commencer la mise à jour Forcer une mise à jour totale	Date 09/01/2018 01:00:02 31/10/2018 15:50:02 	Commentaires rc0 rc0 b45 b37_DEBUG b42

In some cases, the following warning message is displayed:



TOPLINK 2 SOFTWARE

Version 2.0.11

Avertis	sement 🔀
♪	Attention, un échec de la mise à jour risque de nécessiter un retour usine de cet instrument, voulez-vous continuer ?

Never interrupt the procedure while downloading. If a full update is interrupted, the device must be sent back to factory

- Click on the YES button to start the download. A progress bar allows to follow the download status:

Téléchargement à 9600 bauds		
Mise à jour de GyroPilot Graphic Flash v1.4 en GyroPilot Graphic Flash v2.0, veuillez patienter		
🧹 ОК	🔀 Annuler	

Once download is completed, the following message informs you that the download was successful:



When the download process is done on a Topline Bus where only editable devices are present, this operation can be achieved at 115200 baud. In that case, there is a TrackBar set at that speed by default.

In case of communication failure during downloading, this TrackBar allows the user to set a lower speed and try again.



USER MANUAL TOPLINK 2 SOFTWARE Version 2.0.11 Outil de maintenance Topline (Version 2.0.11.0) 💀 🖄 😋 🔒 🛤 🍇 🔍 📴 📔 (02h) Interface USB Topline v2.9 Compas Fluxgate Flash v1.8 (19h) Cap magnétique rapide... 158* Mise à jour Diagnostic Informations Firmwares disponibles Description Multigraphic Multigraphic Multigraphic Multigraphic Multigraphic Multigraphic Date 09/01/2018 01:00:02 31/10/2018 16:50:02 Version Commenta rc0 rc0 rc0 b45 b37_DEBUG b42 2.3 2.4 Téléchargement à 38400 bauds Cho Choisissez une vitesse de téléchargi pour commencer la mise à jour nent puis valide 🗙 Annuler V OK 🐴 Télécharger 🔲 Forcer une mise à jour totale Maintenance Trace Base de données Connecté au réseau par 36291009, le PC est esclave à l'adresse 02h Mode administrate. Durée restante dans ce mode : illimitée

7. Help to diagnosis

With Toplink 2 you can save files with the extension ".tss", containing the Bus folders tree and the values of the cookies (after saving), as well as instruments parameters if the case occurs. Such a file can be sent to the service support for expertise.

7.1 Saving the cookies

Once connected to the TOPLINE Bus, browse the folder tree to find the device for which you need to read the cookies. In the diagnosis window, click on the "refresh" button to download the data.

For a full diagnosis file, click on the button:

Read all the zones

Normal Mode: Access to raw values in the cookies



TOPLINK 2 SOFTWARE

Version 2.0.11



Expert Mode: Access to raw and true values



7.2 Saving a file



USER MANUAL T	OPLINK 2 SOFTWARE	Version 2.0.11
---------------	-------------------	----------------

The user can save a binary file (extension .tss), called "snapshot". It contains the folders tree for the Bus and the values of the cookies previously downloaded. This file is saved in the folder C:\Program Files\nke\Toplink2\snapshot. It can be used by the Toplink application or sent to technical support for analysis.



It is possible to read a ".tss" file offline with Toplink:

- Click on the button "Bus emulation..."
- Select the file in the folder "snapshot".

The folders tree and various cookies previously saved can be displayed.

8. <u>Recording the TOPLINE Bus</u>

This function, available in the Expert Mode under the Track tab, allows to save the Topline Bus data exchange under a digital format.



USER MANUAL	TOPLINK 2 SOFTWARE	Version 2.0.11
-------------	--------------------	----------------

The file's name contains the date and time of its creation (yymmdd_hhmnss.ctz). Each file contains only 30 minutes of data record to limit the size of the files. After the first period, a new file is automatically created for the next 30 minutes, and so on.

Warning: The compressed file (.ctz) is generated only at the end of the process. This can result in a lead time once the data have been recorded.



8.1 "Record" procedure

Once connected to the TOPLINE Bus:



USER MANUAL	TOPLINK 2 SOFTWARE	Version 2.0.11

- start recording with the button "start record"
- press the buttons "1" and "2" to mark a particular event.
- stop recording with the button "stop record".

The files are saved in the following folder: <u>C:\program files\nke\toplink</u> <u>2\trace</u> and can be sent to nke technical support for analysis.

- At the end of the record, a window proposes to open the last file or to choose a file from those in the "trace" folder for analysis.

