



USER GUIDE

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INTRODUCTION

The GF_eXpress configurator lets you configure and use GEFRAN devices. To simplify configuration, the programme resembles a typical WindowsTM environment, with toolbar and statusbar.

Possible operations:

- · Serial communication with the device (SLINK3, CANopen, Cencal, Modbus protocols)
- Parameter reading and writing
- Parameter saving in device flash memory
- Checking of device status

PC REQUIREMENTS

- Pentium (or higher) processor
- Adapter for RS232/RS485/TTL and/or CANopen communication
- Windows 2000 (or higher) operating system



Communication adapter

INSTALLATION

The GF_eXpress installation must be preceded by the installation of Catalog.

Installation of Catalog

Follow the steps below to install Catalog:

• Execute GF_ Catalog _#version#.exe and the welcome screen appears:



· Click Next to proceed to the next screen

cense Agreement	1	
Please read the fol	lowing important information before continuing.	
Please read the fol before continuing v	lowing License Agreement. You must accept the term rith the installation.	s of this agreement
IMPORTANT	GEFRAN SPA LICENSE AGREEMENT	
IMPORTANT: THIS LICENS	GEFRAN SPA LICENSE AGREEMENT PLEASE READ THE TERMS AND CON E AGREEMENT CAREFULLY BEFORE DFTWARE	DITIONS OF
IMPORTANT: THIS LICENS SUPPLIED SO This License A	GEFRAN SPA LICENSE AGREEMENT PLEASE READ THE TERMS AND CON E AGREEMENT CAREFULLY BEFORE OFTWARE	IDITIONS OF USING THE you (either an -
IMPORTANT: THIS LICENS SUPPLIED SO This License A	GEFRAN SPA LICENSE AGREEMENT PLEASE READ THE TERMS AND CON SE AGREEMENT CAREFULLY BEFORE DFTWARE greement is a legal agreement between eement	IDITIONS OF USING THE you (either an -

• Read the license agreement, choose I accept the agreement and click Next to proceed

🐻 Setup - Catalog			_ 🗆 🗙
Select Destination Location Where should Catalog be installed?			
Setup will install Catalog into the following	folder.		
To continue, click Next. If you would like to select	a different folder,	click Browse.	
C\Programmi\Gefran		Brow	wse
At least 303.5 MB of free disk space is required.			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Select the installation folder and click Next to proceed

Setup - Catalog		
Ready to Install Setup is now ready to begin instal	g Catalog on your computer.	
Click Install to continue with the ins settings.	llation, or click Back if you want to review or change any	
Destination location: C\Programmi\Gefran	<u>^</u>	
4	▼ ▶	
	< Dack Install Cancel	

Check the settings and click Install to proceed; the extract phase starts

🚰 Setup - Catalog	_ 🗆 ×
Installing Please wait while Setup installs Catalog on your computer.	
Extracting files C:\\TPD32\TPD32_9_000\HTML\Eng\.svn\prop-base\TPD32_spd_thr.htm.svn-base	
	Cancel

• At the end of the extract phase the last window appears:



· Finish to close the setup program

Installation of GF_eXpress and RS-USBX driver

Follow the steps below to install GF_eXpress:

- · If you need to install the RS-USBX interface make sure to disconnect it from USB port
- Execute *GF_eXpress_#version#.exe* and the welcome screen appears:



· Click Next to proceed to the next screen

License Agreement Please read the following important information	n before continuing.
Please read the following License Agreement before continuing with the installation	You must accept the terms of this agreement
GEFRAN SPA LICE	NSE AGREEMENT
IMPORTANT: PLEASE READ THE THIS LICENSE AGREEMENT CA SUPPLIED SOFTWARE	E TERMS AND CONDITIONS OF REFULLY BEFORE USING THE
This License Agreement is a legal	agreement between you (either an 🗸
This License Agreement is a legal of	agreement between you (either an 🖵
This License Agreement is a legal of I accept the agreement C I do not accept the agreement	agreement between you (either an 🚽

• Read the license agreement, choose I accept the agreement and click Next to proceed

f Setup - GF_eXpress		
Select Destination Location Where should GF_eXpress be installed?		
Setup will install GF_eXpress into the fol	llowing folder.	
To continue, click Next. If you would like to selec	t a different folder, click Brows	e.
C\Programmi\Gefran		Browse
At least 13.1 MB of free disk space is required.		
	< Back Next >	Cancel

Select the installation folder and click Next to proceed

🛃 Setup - GF_eXpress	
Select Start Menu Folder Where should Setup place the program's sh	ortcuts?
Setup will create the program's short	tcuts in the following Start Menu folder.
To continue, click Next. If you would like to se	elect a different folder, click Browse.
Gefran	Browse
	<back next=""> Cancel</back>

Select the Start menu folder and click Next to proceed

😽 Setup - GF_eXpress			_ 🗆 🗙
Select Additional Tasks Which additional tasks should be performed?			
Select the additional tasks you would like Setup click Next. Additional icons:	o to perform while	installing GF_eXpi	ress, then
🦳 Create a desktop icon			
Create a Quick Launch icon			
Install drivers for RS-USBX			
	< Back	Next >	Cancel

· Select the additional tasks you want to install (for example drivers for RS-USBX) and click Next to proceed

ady to Install		
Selup is now ready to begin installing Gr_e/	<press computer.<="" on="" press="" th="" your=""><th>Ģ</th></press>	Ģ
Click Install to continue with the installation, o settings.	r click Back if you want to revi	iew or change any
Destination location: C.\Programmi\Gefran		<u>^</u>
Start Menu folder. Gefran		
Additional tasks: Install drivers for RS-USBX		
<u>ر</u>		× >

· Check the settings and click Install to proceed; the extract phase starts

🕞 Setup - GF_eXpress	_ 🗆 🗙
Installing Please wait while Setup installs GF_eXpress on your computer.	
Extracting files C\Programmi\Gefran\GF_eXpress\GF_eXpress.pdf	
	Cancel

• Only when install drivers for RS-USBX: the following message may appear on PCs running Windows XP, when setup program begins to install the USB drivers:



- · Ignore this message and continue with installation
- · At the end of the extract phase the last window appears:



· Click Finish to close the setup program

Usage of RS-USBX with Windows Xp

During the first usage of the interface on a specific USB port, it should be possible that a driver search message will appear. In this case follow the below procedure:



1. Choose Install from a list or specific location and click Next to proceed

lease	choose your search and installation options.
09	Search for the best driver in these locations.
L	Ise the check boxes below to limit or expand the default search, which includes local aths and removable media. The best driver found will be installed.
	Search removable media (floppy, CD-ROM)
	Include this location in the search:
	C:\Documents and Settings\axel18\Desktop\CAN-U 🐱 Browse
ت (ی) ان ان	Con't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarantee t ne driver you choose will be the best match for your hardware.

2. Choose Don't search the driver and click Next to proceed



3. Select the compatible hardware (appears only one choice) and click Next to proceed



4. Ignore the Windows Logo message and click Continue to proceed



- 5. Click Finish for complete the procedure
- 6. IMPORTANT: the procedure must be repeated twice because the RS-USBX has two different device drivers

Usage of RS-USBX with Windows 7 64bit version

During the first usage of the RSUSBX interface on a specific USB port, the system could fail the automatic installation of the driver software. In this case follow the below procedure:

1. Choose Device Manager from Control Panel

Device Manager	
File Action View Help	
⊿ 🚔 UfficioSW-Ip	
Batteries	
⊳-;I Computer	
Disk drives	
Display adapters	
DVD/CD-ROM drives	
▷ 🕼 Human Interface Devices	
IDE ATA/ATAPI controllers	
b - P IEEE 1394 Bus host controllers	
Keyboards	
D - B Mice and other pointing devices	
Monitors	
Network adapters	
a - 😰 Other devices	
- 📴 AXEL srl USBX converter	
AXEL srl USBX converter	
PCMCIA adapters	
- Ports (COM & LPT)	
Processors	
b - And SD host adapters	
>- 🖉 Security Devices	
Sound, video and game controllers	
b - F System devices	
b - Universal Serial Bus controllers	

2. Click on the first Axel srl USBX converter in Other devices to proceed

AXEL srl US	SBX converter Pro	operties	X
General	Driver Details		
1	AXEL srl USBX o	onverter	
	Device type:	Other devices	
	Manufacturer:	Unknown	
	Location:	0000.001d.0001.001.000.000.000	000.0
The Ther elem To fir	drivers for this device e is no driver select ent. Ind a driver for this o	ce are not installed. (Code 28) ed for the device information set or levice, click Update Driver.	*
		Update Driver	
		Close	Cancel

3. Click Update Driver... to proceed

1	Search automatically for updated driver software Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.	
•	Browse my computer for driver software Locate and install driver software manually.	

4. Click Browse my computer for driver software to proceed



5. Click Next to proceed



6. Ignore the Windows Security message and click Install this driver software anyway to proceed

ALL A CORDER TO A LANCE	×
🕞 📱 Update Driver Software - Axel Service Port	
Windows has successfully updated your driver software Windows has finished installing the driver software for this device: Axel Service Port	
	Close

7. Click *Close* to proceed

ieneral	Driver Details	
5	Axel Service Po	rt
	Device type:	Other devices
	Manufacturer:	Axel
	Location:	0000.001d.0001.001.000.000.000.000

- 8. Verify in the Device status box the device is working properly; click *Close* for complete the procedure
- 9. IMPORTANT: the procedure must be repeated for the second Axel srl USBX converter in Other devices because the RS-USBX has two different device drivers

Wiring with Gefran instrumentation

The connection between PC and Gefran instrumentation is possible by using the interface kits and wiring called GF_eXK-x-x-x.









In order to use USB adapters, showed in the previous picture, is necessary:

- 1) Install related Driver (available on www.gefran.com site into download section of GF_eXpress configurator)
- 2) Check COM port number assigned to the USB adapter into : Control Panel, Device Manager,... (see picture below)

WORK SESSION

To work with the GF_eXpress you have to:

- · Create a new configuration or use a previous session by opening a file with extension ".gfe"
- Properly configure the communication options (protocol type, COM port, baud rate)

There are three ways to start a work session:

- Open a parameters file with extension "gfe" via the "Open" command on the "File" menu. Do this every time you want to work with a previously saved configuration.
- Create a new configuration with "New configuration" on the "File" menu.

This command opens the "Gefran devices catalogue" window, which lets you choose a device from a list of devices grouped by category

Gefran device catalog					×
Gefran catalog Custom Gefran catalog Custom Drives	Device name	Version	Max version	Description	
	Show all versions			Select	Cancel

Selecting a device displays the main HTML page of the device.

• Use wizard mode to create a new session. To do this, first click the appropriate device category and then the device needed

Device access

Once the device is selected, a screen will appear with two tabs:

- Automatic (default)
- Manual

to select the mode to start communications with the target (see following illustration).

GEFRA	N	GF_eXpress
8		
	Automatic Manual	
650	Automatic scan for 650	Advanced >>
	Protocot. Modbus	
	Start Scan 0 devices found	Stop Scan
EST.	Version Address	Baud rate
650		

When started GF_eXpress tries to reconnect to the last hub it communicated with (the connection parameters are saved whenever the configurator closes). If it succeeds, the following screen appears:

GEFRA	N.		GF_eXpress
0			
	Automati	c Manual	
650	Automatic scan for 65	0	Advanced >>
	Protocol: Modbus		
	Start Scan 1 device	s found	Stop Scan
	Version	Address	Baud rate
	Select 2.3	7 1	115200
650			
	Station Inc		

Indicating:

- · Version: FW version found on the connected target
- · Address: Modbus hub address
- · Baud rate: communication baud rate

Select the Select key to establish GF_eXpress communications with the connected target, starting to exchange data with the latter.

Should the connected target be a different one (different connection parameters), the following screen appears:

GEFRA	N	GF_express
9		
	Automatic Manual	
650	Automatic scan for 650	Advanced >>
	Protocot Modbus	
	Start Scan 0 devices found	Stop Scan
550	Version Address	Baud rate
<u>650</u>		
1		
4		

At this point, the user can decide to:

- · Run an automatic scan of the network
- Run a manual connection

Automatic Mode

In Automatic mode, when the Start Scan key is pressed, GF_eXpress scans all devices connected to the selected port (settable by pressing the Advanced key)

	Autom	atic Manu	al	
Automa	atic scan for	650		Advanced <<
Protocol:	Modbus	Port: Baud range: Address range:	COM COM RSUSBX 1 15	5
		Line conf:	N.8.1	

using:

•

• all foreseen baud rates between a minimum and maximum (limit values settable by pressing the Advanced key)

Automatic scan for 6	50		Advanced <<
Protocol: Modbus 💌 Start Scan 0 device	Port: Baud range: Address range: Line conf: es found	COM 19200 1200 2400 4800 9600 19200 38400	▼ 5 115200 ▼ Stop Scar
Version	Address	57600 115200	Baud rate

• all hubs between a minimum and maximum (limit values settable by pressing the Advanced key)

Databit, Parity and Stop bit settable by pressing the Advanced key

During the scan, a scroll bar will appear with the percent progress next to the baud rate and number of the hub in use (see following illustration)

GEFRA	N	GF_express
8		
	Automatic Manual	1
650	Automatic scan for 650	Advanced <<
	Port: Protocol: Modbus Address range: Address range: Line conf:	COM 5 19200 115200 1 15 N.8.1
= 650 558	Start Scan 8%	5 19200 Stop Scan
	Version Address	Baud rate
	THE ALL STREET	

All devices found during the scan are listed in the table

	Version	Address	Baud rate
Select	2.37	1	115200

If no hubs that meet the scanned network parameters are found at the end of the scan, message "0 devices found" will appear.

If the set port is not available, the following warning screen will appear:

Automati	c scan for 65	0			Advanced <<
Messa Irotocol:	aggio dalla pagina	Web X	COM 19200 1	✓ 2✓ 115	200 💌
Start S		ок	N.8.1	200	Stop Scar

Manual Mode

By selecting Manual mode, the user can directly set the value of the parameter set to use to start exchanging data with the target in the FW version.

Manual selection for	650
s	Select version: 2.30 - 2.37 -
	2.30 - 2.37 2.20 - 2.21
	2.10
Protocol:	Modbus
Port:	COM 2
Baud:	115200 💌
Address:	1
Line conf:	N 8 1

Once the value of the various variables is set, select Online mode and press the "SELECT" key to have the configurator start exchanging data with the target.

Should the target not meet all set parameters, the following screen will appear.

GEFR	AN	
8		
650 - 2.30		
	WIZARD	
	GF_eXpress	×
GEFRAN (H1)	Can not correctly detect this device, switching to offline mode	
= 650	OK	ב
650	PARAMETERS	
	GITLEX DIES	S

PARAMETERS FILE

After starting the GF_eXpress work session by opening the appropriate parameters file, you can display the information for the parameters.

Each parameter is defined by the following fields:

2400(1p31).glt [MainMo	enu) - 6	iF_eXpress	2									<u>_8</u> ×
	RV	V E E	• • • •		8							
Menu X	IPA	Nome	Tipo	Valore	Default value	Minima	Massima	Unità	descrizione	Nota	Descrizione Breve	1
Seletione menu	0"	In.1	Float	3500		***			In.1 Input1 [p.s.]		In.1	
E ManMenu	1'	In.2	Float	0					In.2 Input 2 [p.s.]		In.2	
	2'	In.3	Float	0					In.3 Input 3 (p.s.)		In.3	
- Dicette	3"	In.4	Float	0					In.4 Input 4 (p.s.)		In.4	
	4'	FIn.A	Int	0	***	***	***		Fin A Input maths function A [p.s.]		Fin.A	
	5"	Fin.b	Int	0					Fin.b Input maths function b [p.s.]		Fin.b	
	6	AL1	Int	100	100	-19999	99999		AL_1 Alarm setpoint 1, if absolute		AL1	
	7	41.0	ini .	200	200	10000	00000		AL 3 Alores cohosini 3 Mahaaluta		41.2	

- · IPA: identifies the parameter
- NAME: mnemonic name used to identify the parameter
- TYPE: type of parameter datum (ex.: int, enum...)
- VALUE: current parameter value
- DEFAULT VALUE: parameter default value
- MIN: minimum parameter value
- MAX: maximum parameter value
- · UNIT: unit of measurement for the parameter value
- DESCRIPTION: explicit description of the parameter
- NOTES: optional information on the parameter
- BRIEF DESCRIPTION: contains a brief description of the parameter.

GF_eXpress parameters can be organized in different menus; this lets you display the complete list or a subset of the parameters. The user can change the values of only the read/write parameters.

If one or more parameters are changed and you want to close the work session, GF_eXpress automatically asks if you want to save the configuration in a gfe file.

COMMUNICATION

Communication with the device takes place via serial or CAN line. To communicate with the device, you need an appropriate serial or CAN adapter. Communication with the device starts every time the user opens a parameters file or creates a new configuration. The user can also enable or disable the connection via Connect on the target menu. When the connection is active, the item Connect is checked and the toolbar button is pushed.

	<u>I</u> a	iget	<u>S</u> ervice	<u>H</u> elp
2	~	<u>C</u> on	nect	
È		Con	nmunicatio	n <u>s</u> ettings
21				

The "Communication settings" command lets you select and define communication options. A window lets you select and set the specific protocol.

Device Link Manager o	onfigurat	ion 🔀
Current selected protocol :	Modbus	
Protocols	Active	<u> </u>
🝹 CanTracer		
🍹 Cencal		
🍹 GDB		
🍹 Kfm		
🍹 Modbus	Active	•
- II		→
Properties	Activ	ate
Description		
Modbus Protocol		
	OK	Coursel
	UK	Lancel

To activate a specific protocol, select the protocol and click "Activate". Click "Properties" to enable the configuration window for the specific protocol..

Modbus config		×
Communication		
Port	СОМ1 -	
Baudrate	19200 🔹	
Frame settings	N,8,1	
Protocol		
Modbus	Address 1	
O Jbus	Timeout 1000	
Enable remote co	ommunication	
Server name		
	OK Cance	el

Each protocol has specific default values, which may vary from device to device. EXAMPLES :

Device	Protocol	Communication properties
XVY	Slink3	COM1, 38400 baud, no parity, 8 data bits, 1 stop bit, address 0, time out 1000
GFX4	Modbus	COM1, 19200 baud, no parity, 8 data bits, 1 stop bit, address 0, time out 1000

Note: To correctly activate communication with the device, the device address must be the address set in GF_eXpress. Once the right address is selected, the parameters have to be saved on the device flash to make the setting definitive. GF_eXpress displays every communication error in a message box containing the specific error code and its description. Communication status is shown on the right side of the status bar.

YTIME	Word	0	0
******	1.61	^	
		🍠 CONN	IECTED

PARAMETER CONTROL

Parameter value

When a parameter value is not updated with the device value, it is displayed in red. It is assumed that parameters are not updated when:

• they are just loaded after an "Open" procedure

 $\ensuremath{\boldsymbol{\cdot}}$ the user changes a value by editing it

It is assumed that the value is updated after a read or after a write procedure. A value can be changed via:

			TEXTBOX	
12	AL.1	Float	500	500
13	AL.2	Float	100	100
14	AL.3	Float	700	700

			COMBOBC	X	
C. MV	hand that the	1. TW STE	1999 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 -		
49	Lb.P	Float	25.0		25.0
50	SP.r	Enum	0= set rem	note absolute	💽 🔽 🛛 🗧 set remote absolute, digital
51	tYP.	Enum	0= set rem	ote absolute,	digit: 0= TC J degrees C 0/1000, 0.0
52	tP.2.	Enum	1= set rem	ote deviation	to loc 0= none
53	FLt	Float	2= set rem 3= set rem	ote absolute, ote deviation	set g to lod 0.1
1 21597		10 million (1911)	o Footrom	oto domanom	

25 S.tu Short 0 26 h.Pb Float 1.0 1.0	FIU	Float	1	100.0		1.11
26 h.Pb Float 1.0 1.0 GFX4 Stu Activate Sett Juning, Auto Juning, SoftStart Q Continuous YES © SettTuning/SoftStart © Continuous YES © SettTuning © Continuous NO © SettTuning © One shot WAIT © SoftStart	Sh	Short		0		 0
GFX4 Stu Activate SettTuning, AutoTuning, SoftStart Autotuning Continuous YES Continuous NO Cone shot WAIT Cone shot WAIT Cone shot Go Continuous IO Cone shot Go Continuous IO Continuous IO Continuous IO Continuous IO Continuous IO Continuous III Continuous III Continuous III Continuous III Continuous III Continuous IIII Continuous IIII Continuous IIII Continuous IIIII Continuous IIIII Continuous IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Flo	Float		1.0		1.0
Activate Self Luning, Auto Luning, SoftStart U Autotuning SelfTuning/SoftStart C Continuous YES None C Continuous NO SelfTuning C One shot WAIT SoftStart O one shot WAIT SoftStart	(4 Stu				ાયલય બ	
Autotuning SelfTuning/SoftStart C Continuous YES Image: None C Continuous NO C SelfTuning C One shot WAIT C SoftStart	Activate SelfTuning, AutoTuning, SoftStart					
		Autotuning Continuo Continuo Continuo One shot One shot	us YES us NO WAIT GO		SelfTuning/SoftStart None SelfTuning SoftStart	
Autotuning one shot with auto switching to GO		- Autotuning o	one shot with aut	to switchin	g to GO	

Cancel

OK

Read and write commands

To send a parameter value to the device, the user can use the "Write parameter" command. The user can also read the current value of a parameter directly on the device with the "Read parameter" command. The read and write commands refer to the currently selected parameter on the GF_eXpress grid. You can also read and write all parameters or a set of parameters by using the "Read all" and Write all" commands. To read or write all device parameters regardless of the currently selected menu, use the "Read all file values" and "Write all file values" commands. By using "Write default file values" you can load the device with the default values contained in the parameters file. For some devices, you can use "Load default values," which tells the device to load its default values (these values are contained in the device).

[WIZARD] - GF_e	xpress						
Parameters	Target	Service	Aiuto					
Read par	ameter		Ctrl+R					
Write par	ameter		Ctrl+W/					
Read all	Ctrl+Shift+R							
Write all			Ctrl+Shift+W					
Read all f	ile values	:						
Write all f	Write all file values							
Write def	ault file va	alues						
Load defa	ault targel	values						
Compare	paramete	rs						
On line m	ode							
Save par	ameters		Ctrl+Alt+S					
Properties	\$							
Add to re	cipe		Ctrl+A					
Delete fra	m recipe		Cirl+O					

On-line mode

On-line mode, activated with the "Online" command, allows to GF_eXpress to update the value of every parameter displayed into active window (only those ones). Likewise, the parameter is immediately transmitted to the device each time the user changes the value of the parameter selected on the grid.

Read-only parameters

Some parameters are read-only and are called variables. Variables cannot be edited or written, and are marked by an asterisk next to the IPA of the parameter in the IPA field (see figure below).

2	20	avice <u>n</u> e	Ч¤					
	10,	⊈ 😭	🗰 🖋 👬 🖻 🖬 🚹					
		IPA	Name					
7	I	18743*	ACTUAL SPEED					
l	I	18736*	DC LINK VOLTAGE					
l	I	20022*	DRIVE FIRMWARE					
l	I	18701*	DRIVE NOMINAL CURRENT					

Saving parameters

Parameters are saved in the device flash via the "Save parameters" command. Saving in the flash is required in order to permanently save values in the device. For some devices, this command is inactive because Write also includes saving directly in the device flash.

MENU SELECTION WINDOWS

Parameter selection menu

Parameters are divided into menus that are displayed in the Menu selection window and are organized in a tree structure for easy selection of parameter subsets.

Wizard selection menu

The Menu selection window can also contain a list of wizard pages and/or a list of recipes.

The wizard pages can be used to control some parameters as shown in the following figure:

GEFR		GF_eXpress
	Zone1 Zone2 Zone3 Zone4	Global
	Input Output Alarms P	id 💿
GFX4 - 1.14	Probe type, signal and scale of main input 0 0=TCJ degrees C 0/1000, 0 Minimum limit of main input scale, for TC,RTD,PTC within scale limits, for Ls 0	0.0/999.9
	linears -1999 9999 Maximum limit of main input scale, for TC,RTD,PTC within scale limits, for Hs 1000 linears -1989 9999	
	PV: 21 RR: NO SP: 400 MAN/AUT AUT Out.P: 100.0 LOC/REM LOC ON/OFF ON	
Janin S	is and it is a second second	2

Recipe selection

A recipe is a subset of parameters. This subset is a menu defined by the user.

To create a new recipe, just right-click the "recipes" menu, select "add", and write the recipe name.

To insert a parameter in a recipe, just select the parameter from the grid and drag it to the recipe. As an alternative, you can select the parameter you want, select "Add to recipe" on the "Parameters" menu, and select the destination recipe as shown in the figure.

Add to recipe	×
Select destination recipe:	
DX FET	
Fresh	
Ricetta	
ОК	Cancel

Import Export

On the "Parameters" menu, or by right-clicking the mouse on "Recipes," you can import or export single recipes in separate files. The reference file has extension .GFR and contains the recipe parameters list with assigned values (see below).

Set Recipe Value

The "Default Value" column takes the named "Recipe Value" in the recipes.

The "Recipe Value" column does not allow direct input. To change the value, you first have to change the value in the "Value" column and, on the "Parameters" menu, press Set Recipe Values, which copies the value from the "Value" column. As opposed to the "Value" column, which is changed after read/write operations, the "Recipe Value" column is never changed. In this way, the recipe value is protected against any accidental changes..

🔀 2500(1	p31).gft [Ricette] - GF_eXpres	5							
File Vista	Parametri Dispositivo Manutenzione	?							
🗊 📽 l	Leggi parametro	Ctrl+R	-	E + 2					
Menu	Leggi tutti (menu attivo)	Ctrl+Shift+R		Valore	Recipe value	Minima	Massima	Unità	descrizione
8	Scrivi tutti (menu attivo)	Ctrl+Shift+W		200	200	-19999	99999		AL 2 Alarm point 2, if absolute Lo.AL Hi.AL, if relative
E-C Mat	Lenni hutti i naramatri dal dispectivo		-	300	300	-19999	99999		AL.3 Alarm point 3, if absolute Lo.AL Hi.AL, if relative
Wiz-	Scrivi tutti i parametri del dispositivo			400	400	-19999	99999		AL.4 Alarm point 4, if absolute Lo.AL Hi.AL, if relative
E Pice	Control in colori and definiti (anno 1986 a)		-	500	500	-19999	99999		AL.5 Alarm point 5, if absolute Lo.AL Hi.AL, if relative
-0	Carica valori predennici (menu activo) Carica valori predefiniti del tarcet			600	600	-19999	99999		AL.6 Alarm point 6, if absolute Lo.AL Hi.AL, if relative
	Carlos Factor productions out cargos		-	700	700	-19999	99999		AL.7 Alarm point 7, if absolute Lo.AL Hi.AL, if relative
	Confronta parametri			800	800	-19999	99999		AL_8 Alarm point 8, if absolute Lo.AL Hi.AL, if relative
	Modalità on line			900	900	-19999	99999		AL.9 Alarm point 9, if absolute Lo.AL Hi.AL, if relative
	Proprietà			1000	1000	-19999	99999		AL.10 Alarm point 10, if absolute Lo.AL Hi.AL, if relation
	Aggiungi alla ricetta	Ctrl+A	Short	10					A.Pid PID group active (only if n.Pid >1)
	Cancella dalla ricetta	CONFD		0.0					Ou.P Output Power [%]
	Export recipe			0.0					C.oUt.1 Control Output 1 [%]
	Import Recipe								

ALARMS

The current device status (normal work or alarm) is displayed on the right side of the status bar.

MONITOR WINDOW

The monitor window displays the value of the current parameter (or parameters). The value displayed in the monitor window is constantly updated with the current device value. The user can insert the required parameter in the monitor window by selecting it and dragging it from the parameters grid.

X) GFX4.gft [MainMenu] - GF_e>	Kpress					_	
File Visualizza Parameters Target	Service	Aiuto					
🏠 🖻 🖶 🛃 🍠 💭 К. М	N 🖳 U	🖡 🖆 🛄 🥖 🕅	1) 🛦 🖻 🕹) 🖻 ?		
Menu X	IPA	Nome	Tipo	Valore	Default value	Min	1
Menu selection	0*	P.V.	Float	21			
	1*	SPA	Float	400			
🕀 📲 Wizard	2	SP	Float	400	400	0	
🎁 Recipes	3	SP.1	Float	100	100	0	
	4	SP.2	Float	200	200	0	
	5*	In.2	Short	0			-
	•						F
Monitor View							×
IPA Short description	/alore	Um Descriz	ione				
4 SP.2 -		SP.2 Se	etpoint 2, in s	cale limits Lo.L			

GRAPHIC WINDOW

The graphics window is a tool that displays the graphics flow of some parameter values. The parameters to be displayed can be dragged from the parameters grid to the graphics window. A track is assigned to each parameter; each track has a different colour. A maximum of 8 tracks can be displayed simultaneously.

Each record has a maximum number of samples available (identical for all variables), settable from a minimum of 500 to a maximum of 100,000. Once this limit is reached, the first samples are overwritten by new ones. Settings for the graph can be set in the "Oscilloscope settings" dialog window using the icon

Oscilloscope settings				×
Show grid 🔽 Show time bar 🔽 Show tracks list 🔽	Sampl Horizo Buffer	e polling rate ntal scale size	100 500 40000	ms ms/div samples
Time format C Milliseconds C Time relative © Time absolute		Type Square Round		
Name	Trac	cks list ∵V∋lue/div	Offe	et Hide
	S.p.			
Real rate: 119.12	Ca	incel	Apply	OK

The oscilloscope window also has a series of viewing utilities such as zoom and scale.

enu	×	IPA	Name		Value		Unit	Default value	Min
Menu selection		1*	P.V.	0			s.p.		
- 🕅 Home		2"	SSP	0			s.p.		
Status		3-	OUT.PW	0.0			96		
-P INFO		5*	LMAIN	0			s.p.		
E PR.OPT		6*	SETPR	0			s.p.		
E-C PR.STP		7	CURR1	0.0			A		
- LISPR		8"	CURR2	0.0			A		
-CI LCT1		10*	CURR	0.0			A		
LCT2		11*	OUT.KW	0.00			kW		
AL.HB		120*	OU.KWH	0.00			kWh		
PID PID		12*	EN KWH	0			kWh		
PID.GRP									
aph Vew		•)" د د ا							<u>}</u>
sph Vew 		<u>، ایک</u>						05/121	651.07.350
sph Vew 1	2 24 50	. € I	IEM PET	Cur value v/div	Red cursor	Blue cursor (Horz cursor No	05/12 1 05/12 1	• • • • • • •

REMOTE UPDATE

By default, remote updating of the program starts automatically when the software launches.

To start it manually, press "?" on the menu and launch "Check for updates."

GF_Update will check for updates on the Gefran website and will display any new versions of the catalog and software in the window.

To update the program and the catalog, select the update and press the "Update" button.

The Change Log window lists the changes included in the new version.

You can deactivate automatic updating by unchecking "Automatically check for updates" on the "Connection Settings" menu in "Settings" and manually setting any network settings for the proxy. On the first startup, any such settings will be automatically imported by Internet Explorer.

SVN executable path :\test\ge	:fran\gf_update\svn\bin
Automatically check for updat	es
Use proxy server	
Proxy server	Port
Proxy username	
Proxy password	
	Cancel OK

In case of problems with the remote updating of Catalog or GF_eXpress, it is possibile proceed with a manual updating following these steps:

- From Windows Control Panel uninstall the programs:
 - Catalog
 - GF_eXpress
 - SetIpTools (if installed)
- Verify that the folder where Catalog and GF_eXpress were installed (eg c: \ Program Files \ Gefran) is empty; if not execute the backup and then delete them
- Delete, if exists, the GF_EXPRESS.ini file in c: \Documents and Setting\User\ Application Data
- · Download from www.gefran.com the setup files of Catalog and GF_eXpress, and procceed with their installation

IMPORT EXPORT CONFIGURATION

With the "Import Configuration" and "Export Configuration" commands on the "File" menu, you can import and export GFE files with assigned GFT in a single ZIP packet.

This function lets you reuse the configuration and the definition of a specific custom device created by the user.

It is used to export to another PC a device not inserted in the standard catalog ; typically a device written with MDPLC program.

Export Configuration	
Gfe Filename Output Folder	
Output Filename	·
	Export Annulla

This window tool has the following input boxes:

- Gfe FileName : path of the input file (.gfe)
- Output Folder: path of the folder containing the .zip output file

It builds a .zip file containing the .gfe file and the relative .gft file, inclusive of all over folders until Catalog\.

For example, if the saved file.gfe refers to .gft file ADV200_1_X_0.gft,

located in C:\Programmi\Gefran\Catalog\Custom\App\ADV200_1_X_0, then the program will generate a .zip file named saved file.zip, containing the file saved.gfe and the folder Custom\App\ADV200_1_X_0\ADV200_1_X_0\ADV200_1_X_0.gft

Import Configuration		×
Zip Filename Output Folder	· · · · ·	
Output Filename		
	Import Annulla	

This window tool has the following input boxes:

- · Zip FileName : path of the input file (.zip), already made by exportaion option
- Output Folder: path of the .gfe file just extracted

It unzips the .zip file checked, then places the .gft file in the original position and saves the .gfe file in the desired path. All the existing files will be overwritten.

MAINTENANCE

The "Maintenance" menu has a list of specific commands for each device.

You can also add external tools by means of the ServiceCommand.INI file. Links to the two conversion tools par2gfeW and par2gftW are present by default.

🐻 ServiceCommands.ini - Blocco note 🛛 🔲 🗖	
File Modifica Formato Visualizza ?	
[CAPTIONS] tool1="Convert E@syDrives par file" tool2="Convert MDPLC par file" [COMMANDS] tool1="ConversionTools\par2gfew" tool2="ConversionTools\par2gftw"	< >
<	> .::

GFX4

The GFX4 device has the following commands:

Auto Baud

The AutoBaud command is used for setting device Baud Rate and Parity via software. Press the Start key to send values to the device.

GFX AutoBaud	
GFX AutoBaud	
Set Baud Rate to: 19200 💌 Set Parity to: N 💌	X
0%	10
Start	RE
	38

Copy zone

The Copy Zone command is used for copying the values of a Zone and pasting them in another zone. Values are automatically copied and pasted when the Copy key is pressed. You can copy values to one or more destination zones by selecting multiple zones in the "Copy to" list.

	Copy to:		
Copy from:	zone2		
zone1 🔽 📩	zone3		
C		•	
()%		

Edit custom map (GFX4 e GFX4-IR)

The GFX4, GFX4-IR and GFW devices let you configure a portion of their Modbus dictionary (from address 0 to 119), indicated as a Custom Map.

This map can be managed ONLY when the devices work in GFX4 mode.

With GF_eXpress, connect to the GFX4 or GFX4-IR or GFW, configured in GFX4 mode, the icon 🕼 will be activated on the Toolbar.

Click the icon to access the following window:.

(14)	104	Marr		-	T		Maker
×	IP/A	Nam D.V. 4	e	Flores	Туре	24	value
selection		P.V1		Float		21	
inu	1	OPA_1		Float		400	
5	2	SP_1		Float		100	
Edit Cus	tom M	ap					_ 🗆 🗙
	Ec	lit Custom Man	,				
	#	Addrass	Zor	ne	Name	Value	
	1 1	1024	Zone 1	ile .	PV	21	
	2 1	1025	Zone 1		SPA	400	
	3 1	1040	Zone 1		SP	0	
	4 1	1626	Zone 1		In 2	0	
	5 1	1163	Zone 1		LTA1	0.0	
	6 1	1036	Zone 1		AL 1	500	
	7 1	1037	Zone 1		AL.2	100	
	8 1	1431	Zone 1		A2.t	0	
	9 1	1432	Zone 1		A3.t	0	
	10 1	1219	Zone 1		ALn	3	
	11 1	1079	Zone 1		A.Hb.1	100	
	12 1	1026	Zone 1		Ou.P	100.0	
	13 1	1276	Zone 1		Ou.P manual	0.0	
	14 1	1329	Zone 1		STATUSWORD	0	
	15 1	1491	Zone 1		STATUS_STRUMENTO	0	
	16 1	1493	Zone 1		STATUS_STRUMENTO1	0	-
		-0.1		1	1000		Close

by means of which you can configure\display the Modbus dictionary of the custom map. The table shows a series of columns:

- "#": indicates the JBUS address (Modbus Address + 1) assigned to the object on the custom map
- "Address": lets you set the Modbus address of the parameter to be managed on the custom map. Modifying the content of this column automatically updates the content of the "Zone" and "Name" columns.
- "Zone": lets you set the zone (from 1 to 4 or Common) that is the source of the parameter to be managed on the custom map. Modifying the content of this column automatically updates the content of the "Address" column.
- "Name": the name of the parameter to be managed on the custom map. Modifying the content of this column automatically updates the content of the "Address" column.
- "Value": displays the (approximate) value of the parameter managed on the custom map.

By means of the "Address," "Zone," and "Name" columns, you can configure the custom map of the device as you wish. Every change made in one of these columns is instantly transmitted to the connected device.

Set IP Address (Modbus TCP) for GFX4, GFX4-IR and GFW

The "Set IP Address (Modbus TCP)" command lets you set network settings:

- IP Address
- NetMask
- Gateway

For devices:

- GFX4
- GFX4-IR
- GFW

The the network expansion that implements Modbus TCP protocol is installed The following dialog appears when the command is launched

Set IP for Geflex,	/GFX4 - 1.2.0				x
Node number:	0				
IP:		M/	AC:		
NetMask:		FV	V version:		
Gateway:					
	Set new	IP		Get current IP	
Network in	terface: Bro	adcom NetXt	reme 57xx Gig	abit Controller 🔹	
	OK		Can	cel	

Once the PC is connected to the device by a cross Ethernet cable or hub/switch, simply

- set the Node number field so that it complies with the real GFX4\GFX4\GFW rotary value.
- Select the "Network interface" to which the node is physically linked
- press the "Get current IP" key to view network settings associated with the connected node. The IP address, subnetwork mask, default gateway and MAC address can be viewed.
- set the required parameters and click on the key to sent Set new IP data.
- reboot GFX4\GFX4-IR\GFW.

Set IP Address (Ethernet IP) for GFX4, GFX4-IR, GFW, ADV200, ADV200S and AFE200

The "Set IP Address (Ethernet IP)" command lets you set network settings:

- IP Address
- Netmask
- Gateway

For devices:

- GFX4
- GFX4-IR
- GFW
- ADV200
- ADV200S
- AFE200

The network expansion that implements Ethernet IP protocol is installed.

The following dialog appears when the command is launched.

Set IP for RTE-EthernetIP - 1.2.0	×
	IP: NetMask: Gateway: BOOTP DHCP
Refresh list	Apply changes
Betroit intenate.	Close

Once the PC is connected to the device by a cross Ethernet cable or hub/switch, simply

- Select the "Network interface" to which the node is physically linked
- Select the "Refresh List" key to create the connected device list

iet IP for RTE-EthernetIP - 1.2.0 List of devices found (MAC) : 00:02:A2:21:17:67	IP: I NetMask: Gateway:
Refresh list	BOOTP DHCP
Network interface: Broadcom N	Apply changes

• Select the MAC address of the device to be set. Network parameters (IP, NetMask and Gateway) linked to the device will be displayed in a specific section

Set IP for RTE-EthernetIP - 1.2.0		×
List of devices found (MAC) :	IP:	192.168.1.100
UU;U2;A2;21;17;67	NetMask:	255.255.255.0
	Gateway:	192.168.1.1
		BOOTP DHCP
Refresh list		Apply changes
Network interface: Broadcom NotX	(treme 57xx Gigabi	t Controller 🗾
		Close

· Set new IP, NetMask and Gateway values and click "Apply changes"

Set IP for RTE-EthernetIP - 1.2.0		×
List of devices found (MAC) : 00:02:A2:21:17:67	IP:	192.168.1.100
	NetMask:	255.255.255.0
	Gateway:	192.168.1.1
		ВООТР П ВНСР
Refresh list		Apply changes
Network interface: Broadcom NctX	(treme 57xx Gigabi	t Controller 🗾
		Close

Download firmware (ADV, ADL, AFE200, ADP200, AXV300, AVRy, FFE200,

VDL200, ecc)

This command allows to download the Drive & Motion Control Unit products firmware (drive and converters ADV, ADL, AFE200, ADP200, AXV300, AVRy, FFE200, VDL200, etc. series) with drive – PC connection by **PCI-COM** adapter.

For TPD32-EV this functionality is available from Catalog version V2.34. The firmware download is not available on BDI50 / VDI100 drives.

i.e. firmware upload with TPD32-EV converter

From menu select Service / Download firmware

File View Parameters Target	Service	Help			
🏭 🗳 🖬 🎒 🍠 💭 R Menu 🛛 🗙	Co	nvert E@syDrives par file nvert MDPLC par file	🗗 🔚 🔶 💡 🕴 Value		
Menu selection	Save Parameters		rpm Disabled		
E-C All parameters					
Drive Status	Co.	ntrol Panel	0 5000		
H- C Start Up	Ala	ms			
H- C Tuning	Download firmware 8196 Speed max neg		5000		
⊕-					
Input Variables	8197	Speed min pos	0		
E- C Limits	8198	Speed min neg	0		
E Ramp	8199	T current lim	100		
Speed Regulat	8200	T current lim +	100		
Current Regulation	8201	T current lim -	100		
	3009	Current lim red	100		

This will open a window where you will have to be set Port, Baudrate, Adapter and the path of the file to upload (TPD32 Firmware file). At the end click on *Do Download*.

tau V	125	Dod Dramelaa	Value	Defaultyalut	Unit	Dar	Min	Max	Name	_
and a	8264	CHIM DATION THAT	60	60		STIDE	-	-	P52	_
Metti selecturi	3407	Enable forgue pr	Disabled	Disabled		Loum			P4205	
Interface Marrie	8193	Speed min smount			ram	Unsignedint	D	6.296978+039	P1	
WZ4PD	8154	Speed max amount	5000	5000	rem	Unsignedint	0	4.294070-000	12	
	8105	Speed mar pos	5000	5000	1915	Unsignedint	0	4.29497#*009	F3	
-El Recipes	2195	Spood max nog	6600	0000	rpm	Unsignediat	0	4.204070+000	P4	
	8157	Speed min pos	0	0	1911	Unsignedint	0	4.29497e+009	P5	
	2192	Spood min neg	-				0	4.204070+000	PC	
	8100	T current lim	TPD32 Downloader	100	16.	in succession of the second se	0	100	P7	
	#200	T ramont lim +	Part	Real File			0	100	PR	
	8201	Tourentlim -	COM2	· ciprogram Banko	therigi D	una: anu	0	100	P9	
	\$205	Current lim red	Baskely	-			0	133	P13	
	8211	S shape I const	19200	Programming utility			0	15000	P19	
	8212	Ramp +r. cetay		- criprogram filcaliga	fran'gt B	1100	0	655.85	P20	
8213 Acc. dolla speed 8214 Acc. dolla speed	Acc. della opeed	Adapter	221			0	4.29407e-009	P21		
	ACC. COLLA TIMO	pru tespru con	TP032 Firmiare Fi			0	05535	P22		
	8215	Acc. della speed 1	De Download DTCPD9LASH TPD32EV Brivine				0	4.204070-000	P23	
	8216	ACC CERTITIE 1					0	655.25	P24	
	8217	Acc. della speed 2	Sistus : Sia	nuð y			0	4.29497+-009	P25	
	8218	Acc. clella Time 2						05535	P26	
	8219	Acc. della speed 3					0	4.29497++009	P27	
	8220	Acc. della time 3					0	05535	P26	
	12221	Dec. delta speed		CIONE			0	4.294976+009	P29	
	0222	Dec delta time	-			terester and the	0	65535	P30	
	#2273	Dec. delta speed 1	100	100	rpm	Unspredint	0	4.294978+009	F31	
	8224	Dec. delta time 1	1	1		Unsigned@hort	0	65535	P32	
	8225	Dec delta speed 2	100	100	rpm.	Unsignediat	0	4 294978+009	P33	
	8225	Dec delta time 2	1	1	8	Unsigned0hort	0	05535	P34	
	\$221	Dec della speed 3	100	100	rpm.	Unsignediat	0	4 294978+009	F35	
	8228	Dec. delta time 3	1	1	6	UnsignedShort	0	65535	P36	
	8//9	USID OCITA SOCIA	1000	1000	ram	Unsignedint	0	4/294976+009	P37	
	8230	QCtp delta time	1	1	0	UnsignedShort	0	65535	P38	
			-							

At this point (only for the TPD32 EV converter) you will be asked to switch off the drive, close the S0 jumpers on the R-TPD32 card and restart the drive.

	-		9	5	9	9	6	000	0	84	1 808/89	tota what		1 1 1 7 10
Parameter of the local division of the local	(1	96	0	8	26 G	0	022	9	80 8			C22	1
	30	SUMEROPIAL DG								- differentine				
1	32	32	33	34	35 36 V2	翻 373	6 39	40		1	x + +		•	Ð-
1	11	12	13	14	15 16	17	8 19	20						

	IPA.	Chorl Description	Val	Let .	Default volar	Unit	Type	Min	Max	Nerne	
	8,144	UNIT TACTOR TANK	1011		mm.		amno		-	P52	_
Manu safecton	9487	Emphie torque or	Dissilied		Disabled		Enum			P1295	
Interface/decu	8153	Speed min amount	0		2	(pm)	Unstanediat	0	4294974-009	F1	
I WIZARD	8134	Speed max amount	5000		5000	rpm	Unsignedint	0	4.294974+009	P2	
DIAGRAMS	8195	Speed max pes	0000		2220	(pm	Unstanediat	0	429497+-009	P3	
- D Recipes	8195	Speed maxined	5000		5300	mm	Unsignedity	0	4294974+009	PI	
	0157	Speed min pap	0		2	rpm	Unsignedist	0	4254974-009	F5	
	8135	52440 (THE 040	-					0	4294974+009	P5	
	8795	Lourentlin	TPD32 Dov	wnieeder				0	\$00	17	
	6200	Toursed Im	2.4		Deat File			0	800	P0.	
	8201	T current lim -	COH2		x] [cimmon finier	Aurist 6	ineven	0	100	PD	
	6205	Current Immed	Terre	-	- Checking and			0	100	P13	
	1011	S shape (canst	1PDH2 Down85	adur	- Supervised			0	\$5000	P19	
	0212	Ramp +- dalay				0	00030	P20			
	1073	Act: della speed	POWE OFF I	te drive. Ch	the SP Amore on R-1PD	0	429497#+009	F21			
	0214	Acc della lime	drive			0	00030	P22			
	1015	Acc delta speed 1						0	4.29497#+009	P23	
	8214	Asc. dolta lime 1				0	36333	P24			
	0217	Acc. chella speed 2	OX Arrulu						4 29497#-009	P25	
	8218	Acc. dolta time 2							36333	P25	
	0215	Acc della speed 3	-	_		_	_	0	429497+-009	F27	
	8720	for delta time 3	the second se					0	65635	F28	
	0221	Dec deta speed	-		Cices			0	4294974-009	P29	
	8/17	LIPC DETAILTINE				_		0	000.00	P'83	
	8223	Dog. delta speed 1	100		100	rpm	Unsignadist	0	4.204074-000	P31	
	8224	Dec. deta trite 1	1		1	5	Unsignedation	0	00030	P32	
	8225	Dog data speed 2	100		100	rpm	Unsignadist	0	4204074-000	P33	
	8225	Dec. deta trae 2	1		1		UnsignedShort	0	05535	P34	
	8227	Dec. daits speed 3	100		155	rpm	Linsignative	0	4 294074+000	P35	
	8228	Dec. deta time 3	1		1		UnsignedShort	0	05535	P30	
	8779	Girty name speen	1000		1300	rpm	LINCIPARIT	0	4 294974+009	PRE	
	8230	QCtp dettu lime	1		1		UnsignedChort	0	65535	P30	

Then press *OK* to start the download.. Windows progress will be displayed and at the end it will shown "*All done*".

in X	IPA.	Shert Dependent	Value	Delay	traise Un	byg	Min	Han	Name	_
Hamadadada	2,744	Corm factor teld	num	rpm		3000	-	-	P57	
C. Li sussidar	9487	Emable torque pr	Disabled	Doubled		Grum			P1295	
The face Monu	8193	Speed min amount	0	D	em.	Unsignedim	0	4 294978+009	P1	
WZARD	8794	Speed max amount	5000	5000	igm.	Unsignedint	0	4.29497e-000	P2	
DIAGRAMS	8195	Speed max pos	5000	5000	rigen a	Unsignedial	0	4.29497e-009	P3	
D Recipis	8190	Speed max reg	6000	5000	rpm	Unsignedint	0	4.29497e-009	P4	
	8157	Speed min pas	0	0	apres -	Unsignedial	0	4.29497e-009	P3	
	8798	Speed man neg	-				U	4.294976-009	176	
	8155	T current lim	TPD52 Doardoa	der mitte		the second se	0	100	P7	
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	1005	Cutteril Im red	Cashele				0	100	P13	
	8211	5 shape t const	10210	Proper	maguality		0	15000	P19	
	8212	Ramp +i- delay		- ciprog	non-Berlgefranief	Drovas	0	65535	P20	
	\$213	Anz. dolta speed	Adaptar				0	4.204078-000	P21	
	8214	Acc. delta lime	Lect without	COM . INCOM	Ferman File		0	95535	P22	
	8215	Ane dolta speed 1	Abort 0:0/H0/pLASH IP032/EV Druise				0	4.20407e-000	P23	
	8219	Acc. delta lime 1		-		0	05535	P24		
	\$717	for dolts speed 2	Status :	Sending Londer Re		0	4 204070+000	P25		
	8218	Acc. delta lime 2					0	95535	P20	
	\$719	for dolta speed 3				0 4 204976+009	P20			
	6220 Acc delta lime 3				1	0		05535		
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	8222	Deo, della time	<u> </u>				0	85536	P30	
	8223	Dec. detta speed 1	100	100	item i	Unsignedim	0	4.294976+009	P'31	
	8224	Deo, delta time 1	1	1		UnsignedSheet	0	85536	P32	
	8445	Dec. deta speed 2	100	100	m	Unsignegint	0	4.294976+009	F33	
	8325	Deo, delta time 2	1	1		UnsignedSheet	0	65535	P34	
	8227	Dec. della speed 3	100	100	19,013	Unstangulari	9	4.204070-000	F30	
	8228	Dec. delta time 3	1	1		UnsignedSheet	0	65535	P36	
	8229	OSIp detta speed	1000	1000	1973	Unsurredint	9	4.204070-000	P37	
	8230	OStp data tima	1	1		UnaignedShort	0	65535	P38	

lau X	FA.	Short Description	Value	Deta	ultvalue	Unit	ype	Min	Max	Name	
Manual and and have	8244	cam tactor with	rom	rom		HTING		-	_	P52	
C. Uleanester	5407	Enable torgue pr	Draabled	Disabled		Enum				P1295	
TetofaceMona	8193	Speed min amount	0	0	rom.	Linsignedit	n	0	4/234978+939	P1	
WZARD	8154	Speed max amount	5000	5000	(pm)	Unsignedit	d.	0	4.23497c-999	P2	
CIAGRAMS	8195	Speed max pos	5000	5000	(pm)	Unskpredit	1	0	4294978*009	P3	
- pl Racipes	\$196	Speed max.neg	5000	6000	(pm)	Unsignedit	d.	0	4,29497+-009	P4	
	8157	Speed min pos	0	0	(prin	Unskpredit	1	0	4.234976+039	PS	
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	8200	I current tim +	Part	Foot R	ka			0	100	PS	
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	\$212	Ramp +i+ deby		c/pro	gram files/gehan/of	Drovies		0	65535	P20	
	1013	Acc. dolta speed	Adaptor					0	4.234970+039	P21	
	6214	Acc. della lime	Lett append	An el mes	Fernanda Filo			0	65535	P22	
	\$215	Acc. dolta cpood 1	Alart	Oc/P	DILIYOH INDISAL	Drowse		0	4.234976+039	P23	
	6215	Acc. delta lime 1	Status : Serday Frances file - 3465 bytes					0	65535	P24 P25 P20	
	\$217	Are dots speed ?						0	4 234970+009		
	6218	Acc. delta lime 2						0	65535		
	8714	Acc. dolta speed 3						0 42	4 234970+009	P27	
	6220	Acc. delta lime 3	1				1	0	65535	P20	
	8221	Ciec, doita speed	N. Contraction of the second s		CORE				4.234970+039	F29	
	8222	Dec. delle fime	<u> </u>	-				0	66636	P30	
	8223	Liec, delta speed 1	100	100	rom.	Unsignedit	r.	0	4,2349/0+039	F31	
	8224	Dec. delte time 1	1	1	6	Unsigned	hed	0	66636	P32	
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	8235	Dec. delte 1me 2	1	1	6	Unsigned	hud	0	66636	P34	
	8227	Det. della speed 3	100	100	10/10	Unstared	6	0	4,234970+099	F30	
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	IPA Dead Description	Value	Delastrature	Ub	Tune	the.	Max	Name	_
au 🔒	STM DATE TATION	TER.	107		HEED			P52	-
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1 - W7485	3134 Coord manamount	5000	5000	10/1	Unsignedict	0	4.29497e+009	12	
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E RECIDES	2116 Cosed married	5000	6000	10/13	Unsignedict	0	4.29197+000	P4	
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	2715 Are doits sassed 6		COURS T ASK	13-56.09	0	4 294074+000	P22		
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	2717 Are doits sassed 0	State :	All done		4.294074+000	P25			
	A218 Any cleits time 2					0	******	P26	
	2719 Arr. doits cased 2						4.294974+000	R27	
	1920 Acr. della Sene 3						15555	P23	
	1271 Dec delta coned		Cine				4 294974+009	P20	
	1222 Dec della line					0	15505	P10	
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	3230 OCto della Sine	1	1		Unsignedited	0	66636	P30	
					one provide	*	*****	1.00	

At this point (only for the TPD32 EV converter) you will be asked to switch off the drive, open the S0 jumpers on the R-TPD32 card and restart the drive.

17032_0v_11_01.ct (44 (44)	anvenen (- G		11 12 13 14	W2 15 16 17 18 19 20						a) — .
	N W E (Direct Description	Value	60 Te 🛆 🗐 Default-star	Unit	Туря	Min	Max	Neme	_
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🗭 All parameters	8185	Second mits amount	Crascied	0	(DOD)	Unskanedlat	0	4 204074-000	P1200	
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When finished, press the OK button and then click on Close to exit.

CONVERTING E@SYDRIVES SAVED .PAR FILE

	t Service Help Convert E@syDrives par file Convert MDPLC par file
Par 2GfeW	
Input File	
Output File	
,	Convert Exit

This program has the following input boxes:

• Input File : path of the input file (.par)

• Output File: path of the output file (.gfe)

It builds an .xml file extended as .gfe (Output File) starting from a .par saved file (Input File) of a version already existing inside Catalog.

CONVERT MDPLC PAR FILE

🕼 par 2gftW		
Parameter File Configuration File	appConfig.xml	
Gfe Destination folder		
		~
	Convert	Exit

This tool is to convert a par file created by MDPLC.

This program has the following input boxes:

- Parameter File: path of the input file (.par)
- Configuration File : path of the configuration file (AppConfig.xml)
- gfe destination folder: path of the folder containing the .gfe output file (optional)

It builds :

- a .xml file extended as .gfe (Output File)
- a .gft file of the MDPLC application (Output File), that will be used from GF_Net (network setting tool)

starting from a .par file. Configuration File path is already set.

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