# **PC** configurator



User manual

Language: English



Thank you for choosing this WEG product.

Please send any feedback you may have that would help us to improve this manual to the following e-mail address: techdoc@weg.net. We would be happy to receive it.

Before using the product, read the safety instruction section carefully.

Keep the manual in a safe place and available to engineering and installation personnel during the product functioning period.

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## Introduction

The WEG\_eXpress configurator lets you configure and use WEG devices. To simplify configuration, the programme resembles a typical Windowstm environment, with toolbar and statusbar.

Possible operations:

- Serial communication with the device (Slink, CANopen and 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 WEG\_eXpress installation must be preceded by the installation of Catalog.

### Installation of Catalog

Follow the steps below to install Catalog:

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



#### • Click *Next* to proceed to the next screen

ß	Setup - WEG_eXpress Catalog	_		×
	License Agreement Please read the following important information before continuing.		¢	
	Please read the following License Agreement. You must accept the agreement before continuing with the installation.	terms of	this	_
	WEG AUTOMATION EUROPE SRL LICENSE AGRE	EMENT	· ^	
	IMPORTANT: PLEASE READ THE TERMS AND CON THIS LICENSE AGREEMENT CAREFULLY BEFORE SUPPLIED SOFTWARE	IDITION USING	is of The	
	This License Agreement is a legal agreement betwee	n you (	either 🗸	
	I accept the agreement			
	O I do not accept the agreement			
	< Back Nex	kt >	Car	icel

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

😼 Setup - WEG_eXpress Catalog	_		×
Select Destination Location Where should WEG_eXpress Catalog be installed?		<u>1</u>	B
Setup will install WEG_eXpress Catalog into the following for	der.		
To continue, click Next. If you would like to select a different folder,	click Brow	se.	
C:\Program Files (x86)\WEG PC Tools\WEG_eXpress	Brov	vse	
At least 143,4 MB of free disk space is required.			
< Back Next	>	Cancel	
• Select the installation folder and click <i>Next</i> to	procee	ed	
掲 Setup - WEG_eXpress Catalog	_		×
Ready to Install Setup is now ready to begin installing WEG_eXpress Catalog on your	r compute	r.	R
Click Install to continue with the installation, or click Back if you want change any settings.	t to reviev	v or	
Destination location: C:\Program Files (x86)\WEG PC Tools\WEG_eXpress		^	
<		~	
< Bark Ins	tall	Cancel	
Check the settings and click <i>Install</i> to proceed starts	; the e	xtract p	has
闘 Setup - WEG_eXpress Catalog	_		×
Installing Please wait while Setup installs WEG_eXpress Catalog on your compu	ter.	<u> a</u>	B
Extracting files C:\\Inverter\ADV200\ADV200_7_x_20\Diagrams\DiagResources\D	iagImage	s\a5.gif	
	[	Cancel	

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



• Click *Finish* to close the setup program

### Installation of Weg\_eXpress

Follow the steps below to install Weg\_eXpress:

• Execute *Weg\_eXpress\_#version#.exe* and the welcome screen appears:



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

ß	Setup - WEG_eXpress	_		×
	Select Destination Location Where should WEG_eXpress be installed?		(	Ð
	Setup will install WEG_eXpress into the following folder.			
	To continue, click Next. If you would like to select a different folder, o	click B	rowse.	
	C:\Program Files (x86)\WEG PC Tools\WEG_eXpress	I	Browse	
	At least 46,6 MB of free disk space is required.			
	< Back Next	>	Car	ncel
•	Select the installation folder and click Next to	proc	ceed	
ß	Setup - WEG_eXpress	-		×
	Select Additional Tasks Which additional tasks should be performed?			
	Select the additional tasks you would like Setup to perform while instal WEG_eXpress, then click Next. Additional shortcuts: Create a desktop shortcut Create a Quick Launch shortcut	ling		
	< Back Next :	>	Can	cel
•	Check the settings and click <i>Next</i> to proceed; t starts	he e	extract	phase
ß	Setup - WEG_eXpress	_		×
	Ready to Install Setup is now ready to begin installing WEG_eXpress on your computer			
	Click Install to continue with the installation, or click Back if you want to change any settings.	o revie	ew or	
	Destination location: C:\Program Files (x86)\WEG PC Tools\WEG_eXpress		^	
	Start Menu folder: WEG			
	Additional tasks: Additional shortcuts: Create a desktop shortcut Create a Quick Launch shortcut			
	<		>	
	< Back Insta	I	Cano	cel



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



• Click *Finish* to close the setup program

### Wiring with WEG instrumentation

#### ADV200, AFE200, ADP200, FFE200, TPD32-EV:

RS232/USB PC side, RS485 drive side



ADL300, VDL200:

RS232/USB PC side, RS232 drive side



#### AGL50-EV:

#### RS232/USB PC side, RS485 drive side



### Work session

To work with the WEG\_eXpress you have to:

- Create a new configuration or use a previous session by opening a file with extension ".wex"
- 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 ".wex" 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.

wx U	ntitled -	<ul> <li>WEG_eXpress</li> </ul>	;		
File	View	Parameters	Target	Service	Help
	Open				Ctrl+O
	Select				
	Save				Ctrl+S
	Save As	s			
	Close				
	Langua	ige			
	Passwo	ord			
	User N	ote			
	Import	Configuration	ı		
	Export	Configuration	I		
	Print				Ctrl+P
	Print Pa	age Setup			
	1 C:\Us	ers\\Deskto	p\pid.we	x	
	2 adv20	00asy_7_x_20_I	hc_4_x_3	0.wex	
	3 adv2(	00asy_7_x_20_j	pid_2_x_1	_0.wex	
	4 adv2(	00wa_2_x_3_m	drive_1_>	(_41_0.we	c
	5 adv20	00asy_7_x_19.v	vex		
	6 adv20	00asy_7_x_20.v	vex		
	7 adv20	00asy_7_x_0_p	id_2_x_1.	wex	
	Exit				

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



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).

Weg	WEG	_e <b>X</b> press
8	Automatic Manual	
ADV200	Automatic scan for ADV200	Advanced >>
	Protocol: Modbus	
	Start Scan 0 devices found	Stop Scan
	Version Address	Baud rate
1: 19.00		

When started WEG\_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:

шер		WEG_	eXpress
0			
	Automatic	Manual	
ADV200	Automatic scan for AL	Advanced >>	
	Protocol: Modb	us	V
	Start Scan 1 devices f	ound	Stop Scan
	Version	Address	Baud rate
	<u>Select</u> (1,1,20		30400

Indicating:

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

Select the Select key to establish WEG\_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:

W20	WEG	eXpress
8		
	Automatic Manual	
ADV200	Automatic scan for ADV200	Advanced >>
	Protocol: Modbus	
	Start Scan 0 devices found	Stop Scan
	Version Address	Baud rate
The Captor		
Janin Ry		

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, WEG\_eXpress scans all devices connected to the selected port (settable by pressing the Advanced key)

	Autom	atic	N	lanual			
Automatic	scan fo	r AD	V200				Advanced <<
F	Protocol:	Modbu	s			~	
F	Port:	[	сом	✓ 1			
E	Baud range:	ſ	9600	✓ 38400	~		
,	Address rang	ge:	1	15			
l	Line conf:	[	N,8,1				

using:

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

Autor	natic Manual	1
Automatic scan f	or ADV200	Advanced <<
Protocol:	Modbus	
Port.	1200 2400 4800	
Baud rang Address ra	e: 9600 384 19200 nge: 38400	00 🔽
Line conf:	57600 115200	
Start Scan 0 dev	ices found	Stop Scan
Version	Address	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)

Weg	WEG_eXpress
0	
	Automatic Manual
ADV200	Automatic scan for ADV200 Advanced >>
	Protocol: Modbus
	Start Scan 13% 6 9600 Stop Scan
	Version Address Baud rate
	spille the second second

All devices found during the scan are listed in the table

	Version	Address	Baud rate
Select	7.7.20	1	38400

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:

	WEG_eX	oress
ADV/200	Automatic Manual	1
	Protocol: Modbus	
	Baud range: 9600 V 38400 V Address range: 1 15 Line conf. NLR 1 Messaggio dalla pagina Web X Start S 1 9600	Stop Scan
	Can not open port COM:1 Baud	rate
1 - minter	11440 - March Contract	

### **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.

weg	WEG_eXpress
	Automatic Manual
	Manual selection for ADV200         Select version:       7x:20         7x:20 PID 2x 1.0       7x:20 PID 12x 1.0         V Ormne move       V         Protocol:       Modbus         Port:       COM       1         Baud:       38400          Address:       1          Line conf:       N8.1
	SELECT
1 - init	all and the second

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.



### **Parameters file**

After starting the WEG\_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:

A ADECOMPY_7_X_20.91 ( INFORMATION ) = WEEKPRESS										
File view Parameters larget	service	Help					n w <b>na n</b>			at result
B <b>⊳</b> ∎ ₿у 2 rv	VEI	■ ♬ Ⅻ @   ℡ ☜ @		<b>H / O</b> H	ii 🛆	네 🕺 🗄		별 맨맨4	a <b>b</b> i	<u>C</u> 851
Menu X	IPA	Short Description	Value	Default value	Unit	Туре	Min	Max		
Menu selection	250*	Output current	0.00		A	Float				
⊡ 🗂 MainMenu	252*	Output voltage	0		V	Float				
- 🐉 MONITOR	254*	Output frequency	0.0		Hz	Float				
👸 DRIVE INFO	256*	Output power	0.00		kW	Float				
👸 DRIVE CONFIG	628*	Ramp setpoint	0		FF	Short				
👸 REFERENCES	664*	Speed setpoint	0		FF	Short				
	260*	Motor speed	0		FF	Short				
	1066*	Enable state mon	0			Unsigned:				
	1068*	Start state mon	0			Unsigned				
MONITOR FUNCTION	1070*	FastStop state mon	0			Unsigned:				
	1100*	Digital input mon	000000			Unsigned				
	1300°	Digital output mon	0000			Unsigned				
DIGITAL OUTPUTS	1200*	Digital input X mon	000000000000000000000000000000000000000			Unsigned				
ANALOG INPUTS	1400°	Digital output X mon	00000000			Unsigned				
ANALOG OUTPUTS										
👸 MOTOR DATA										
🕀 👸 ENCODER										
SPEED REG GAINS										
VF PARAMETERS										
ALARM CONFIG										
WIZARD										
FIELDBUS WORDS MAP										
SPEED FBK LOSS CODE										
EXTERNAL IO										
🗄 📁 📁 Recipes										

- 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.

WEG\_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, WEG\_eXpress automatically asks if you want to save the configuration in a .wex 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.



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

DeviceLinkManager Conf	ig 12.1.0.45	×
Selected protocol :	Modbus	
Protocols	Active	^
CanOpen		
Cencal		
GUD G Kfm		
Modbus	Active	
ModbusTCP		$\checkmark$
Properties	Activate	
Description		
Modbus Protocol		
	OK Car	ncel

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

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

Modbus Config 12.1.0	.45	x
Communication Port	COM1	•
Baudrate	38400	•
Frame	N,8,1	•
R5-422 mode		
Protocol		
Modbus	Address 1	
C Modbus ASCII	Timeout 10	00
C Jbus		
Enable remote co	mmunication -	
Server name		
Enable modem co	mmunication	
Dial number		
	ОК	Cancel

#### EXAMPLES :

Device	Protocol	Communication properties
ADV200	Modbus	COM1, 38400 baud, no parity, 8 data bits, 1 stop bit, address 1, time out 1000

**Note:** To correctly activate communication with the device, the device address must be the address set in WEG\_eXpress. Once the right address is selected, the parameters have to be saved on the device flash to make the setting definitive. WEG\_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.



## **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
- 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:

IPA	Short Description	Value	Default value	Unit	Туре	Min	Max
600	Dig ramp ref 1	0	0	rpm	Short		
602	Dig ramp ref 2	200	0	rpm	Short		
604	Dig ramp ref 3	0	0	rpm	Short		
610	Ramp ref 1 src	Analog input 1 mon	Analog input 1 n		Enum		

IPA	Short Description	Value	Default value	Unit	Туре	Min	Max
600	Dig ramp ref 1	0	0	rpm	Short		
602	Dig ramp ref 2	200	0	rpm	Short		
604	Dig ramp ref 3	0	0	rpm	Short		
610	Ramp ref 1 src	Analog input 1 mon 📃 🔻	Analog input 1 n		Enum		
612	Ramp ref 2 src	Analog input 1 mon 📃 🔺	Dig ramp ref 2		Enum		
614	Ramp ref 3 src	Analog input 2 mon	Mpot output mor		Enum		
616	Ramp ref invert src	Mont output mon	FR reverse mon		Enum		
620*	Ramp ref 1 mon	Encoder 1 speed		rpm	Short		
622*	Ramp ref 2 mon	Encoder 2 speed		rpm	Short		
624*	Ramp ref 3 mon	Analog input 1X mon 🔮		rpm	Short		

#### • Combobox

### 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 WEG\_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).

wх	ADV200Asy_7_x	20.gft [	REFERENCES	] -	WEG_	eXpress
----	---------------	----------	------------	-----	------	---------





#### **On-line mode**

On-line mode, activated with the "Online" command, allows to WEG\_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).

ų.	🖡 R X 📽 🔼 🐿 🛙	🛛 🎒 🖹 🔶 🤋 🛃	🗰 🗲 🚺 👬	i \Lambda
IPA	Short Description	Value	Default value	Unit
250*	Output current	0.00		A
252*	Output voltage	-1		V
254*	Output frequency	0.0		Hz
256*	Output power	0.00		kW
288*	Output cosphi	0.00		

### **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:



### **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:	
Motor Plant01 RECIPE	
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.



## Alarms

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

Notes:



## **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.

wx ADV200Asy_7_x_20.gft [ MONITO File View Parameters Target	R] - WEG Service	5_eXpress Help										
🕼 🖻 🖬 🛃 🍠 😂 R N	∨ ฃ !	및 凡 Ⅻ □	8 🖪 🖻	· 🖾 🖨 🖪	🔶 💡	EA5Y EXP	🗰 🖋	0 iii	<u> </u>	են 😽 🛯	R 🖁 🗎	<b>1</b>
Menu X	IPA	Short D	escription		Value		Defaul	value	Unit	Туре	Min	Max
Menu selection	1544*	An inp 1 terr	np mon	0					°C	Float		
E MainMenu	1594*	An inp 2 terr	np mon	0					°C	Float		
MONITOR	1610*	An inp 1X te	mp mon	0					°C	Float		
DRIVE INFO	1660*	An inp 2X te	mp mon	0					°C	Float		
👸 DRIVE CONFIG	2342*	Working loa	d	0.0					%	Float		
	280*	Torque curre	ent ref	0.0					A	Float		
	282*	Magnet curr	ent ref	0.0					A	Float		
MULTI REFERENCE	284*	Torque curre	ent	0.2					A	Float		
	286*	Magnet curr	ent	-0.2					A	Float		
	3212*	Motor overlo	ad accum	0					%	Unsigned		
	368*	Drive overlo	ad accum	0					%	Unsigned		
DIGITAL INPUTS	3260*	Bres overloa	ad accum	0					%	Unsigned		
	1066*	Enable state	e mon	0						Unsigned		
ANALOG INPUTS	1068*	Start state m	non	0						Unsigned		
	1070°	FastStop sta	ate mon	0						Unsigned		
	1100°	Digital input	mon	000000						Unsigned		
⊞- <sup>™</sup> ENCODER	1300°	Digital outpu	ut mon	1101						Unsigned		
SPEED REG GAINS	1200°	Digital input	X mon	00000000	0000000	)				Unsigned		
	1400*	Digital outpu	ut X mon	00000000	0					Unsigned		
	5400*	Dig inp 0Ext	mon	00000000	h					Unsigned		
	5402*	Dig inp 1Ext	mon	00000000	h					Unsigned		
	5450°	Digital out 0	Ext mon	00000000	h					Unsigned		
	5452*	Digital out 1	Ext mon	0000000	h					Unsigned		
Monitor View												
IPA Short description		Value 1101	Um	Description								

### **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 🔽	Sample Horizor Buffer :	e polling rate ntal scale size	100 500 40000	ms ms/div samples
Time format Milliseconds Time relative Time absolute	C F	fype quare lound		
Name	Unit	ks list Value/div	Of	fset Hide
DC link voltage				
Real rate: 121.49	Ca	ncel	Apply	OK

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

** ADV200Asy_7_x_20.gft [ MONITOR ] - W	EG_eXpress						
File View Parameters Target Service	e Help						
🕼 🎽 🖬 🔮 🎾 💭 R W 🖱	백 凡 씼 🖆 🔼 🐄 🛛	🖬 🎒 🖹 🔶 💡 👪	🗰 🖋 🚺 👬	🔥 40 🙈 🖥	R X 🖷 🗄	9 8 8 2	🐴 👿 🖬
Menu X IPA	Short Description	Value	Default value	Unit Type	Min	Max	
Menu selection 628	Ramp setpoint	0	II	pm Short			
⊟-* MainMenu ^ 664	Speed setpoint	0	ŋ	pm Short			
MONITOR 260	Motor speed	0	rj	pm Short			
DRIVE INFO 270	DC link voltage	-2	V	/ Float			
👸 DRIVE CONFIG 272	Heatsink temperature	0	*(	C Short			
REFERENCES 290	Motor temperature	0	*(	C Float			
	Sensor inp X mon	0	*(	C Float			
154	An inp 1 temp mon	0	*	C Float			
159	An inp 2 temp mon	0	*	C Float			
MONITOR FUNCTION 1610	An inp 1X temp mon	0	*	C Float			
	* An inp 2X temp mon	0	*	C Float			
DIGITAL INPUTS 234	* Working load	0.0	9	6 Float			
DIGITAL OUTPUTS 280	Torque current ref	0.0	A	Float			
ANALOG INPUTS 282	Magnet current ref	0.0	A	Float			
ANALOG OUTPUTS 284	Torque current	0.2	A	Float			
MOTOR DATA 286	Magnet current	-0.2	A	Float			
ENCODER 321	Motor overload accum	0	9	6 Unsigned			
SPEED REG GAINS 368	Drive overload accum	0	9	6 Unsigned			
TOPOUL CONFIC 3260	<ul> <li>Bres overload accum</li> </ul>	0	9	6 Unsigned			
N VE DADAMETERS Y 106	Enable state mon	0		Unsigned			
< 1060	<ul> <li>Start state mon</li> </ul>	0		Unsigned			
Graph View							
		<b>1</b> 🗟					
		a 🛩					
.0 95491 J ms/div : 36386.49							
-1.01521							
-1.1755							
1,3358 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
1 65639							
-1.81668						•••••••••••••••••••••••••••••••••••••••	
-1.97698						•••	
-2.29757							
5.15971e+06							
Track IPA	Um Min value	Max value Cur value	Value/Div				
DC link voltage	V -2.13727	-0.85491 -1.7098	2 0.160296				

### Import Export configuration

With the "Import Configuration" and "Export Configuration" commands on the "File" menu, you can import and export .wex 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.

Х

Export Configurat	ion
-------------------	-----

Wex Filename	1	
Output Folder		
Output Filename		
		Export Cancel

This window tool has the following input boxes:

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

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

For example, if the saved file.wex refers to .gft file ADV200\_7\_X\_0.gft,

located in

 $\label{eq:c:Program Files (x86)} WEG \ PC \ Tools \ WEG \ eXpress \ Catalog \ Custom \ App \ ADV200 \ ADV200 \ 7 \ x \ 0 \ ,$ 

then the program will generate a .zip file named saved file.zip, containing the file saved.wex and the folder Custom\App\ADV200\_7\_X\_0\ADV200\_7\_X\_0.gft

mport Configuration	×
Zip Filename	
Output Folder	
Output Filename	
	Import Cancel

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 .wex file just extracted

It unzips the .zip file checked, then places the .gft file in the original position and saves the .wex file in the desired path.

All the existing files will be overwritten.

### Maintenance

# Set IP Address (Ethernet IP) for ADV200, ADV200S and AFE200

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

- IP Address
- Netmask
- Gateway
- For devices:
- ADV200
- ADV200S
- AFE200

The network expansion that implements Ethernet IP protocol is installed.

The following dialog appears when the command is launched.

	NetMask:
	Gateway:
	🗖 ВООТР 🔲 DHCP
Refresh list	Apply changes
Network interface: Broadcom NotXtr	reme 57xx Gigabit Controller 🔹

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

00:02:A2:21:17:67	IP: NetMask: Gateway: BOOTP DHCP
Refresh list	Apply changes
Network interface: Broadco	om NetXtreme 57xx Gigabit Controller

• 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) : 00:02:42:21:17:67	IP: 192.168.1.100
	NetMask: 255,255,255.0
	Gateway: 192.168.1.1
	🗖 ВООТР 🗖 DHCP
Refresh list	Apply changes
Network interface: Broadco	m NetXtreme 57xx Gigabit Controller
	Close

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

# Download firmware (ADV200, ADL300, AFE200, ADP200, FFE200, VDL200, ecc)

This command allows to download the WEG Automation Europe products firmware (drive and converters ADV200, ADL300, AFE200, ADP200, FFE200, VDL200, etc. series) with drive – PC connection by **PCI-COM** adapter.

This functionality is also available for TPD32-EV.

i.e. firmware upload with TPD32-EV converter

From menu select Service / Download firmware

or click on icon:

File View Parameters Target	Service	Help	
🎦 🗳 🖬 📳 🎾 🞜 R Menu 🛛 🗙	Cor	nvert E@syDrives par file nvert MDPLC par file	Value
Menu selection	Sav	e Parameters	rpm
- All parameters	Cor	atrol Panel	Disabled
Drive Status	Ala		0
🕀 👘 Start Up	Ald	ims	5000
🕀 👘 Tuning		wnload firmware	5000
🕀 👘 Monitor	8196	Speed max neg	5000
Input Variables	8197	Speed min pos	0
i - 🗗 Limits	8198	Speed min neg	0
E- Ramp	8199	T current lim	100
Current Regulat	8200	T current lim +	100
Elux Regulation	8201	T current lim -	100
	8205	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*.

anu X	IPA	Short Description	Value	Detautivalue	Unit	Type	Min	Max	Name	
Menu selection	8264	Dim factor fext	rpm	rpm		String			P52	
C All parameters	3487	Enable forque pr	Disabled	Disabled		Enum			F1295	
a InterfaceMenu	8193	Speed min amount	0	0	rpm	Unsignedint	0	4.29497e+009	P1	
WIZARD	8194	Speed max amount	5000	5000	rpm	Unsignedint	0	4.29497c+009	PZ	
- DIAGRAMS	8195	Speed max pos	5000	5000	rpm	Unsignedint	0	4.29497e+009	P3	
🕅 Recipes	8195	Speed max neg	5000	5000	rpm	Unsignedint	0	4.29497c+009	P4	
	8197	Speed min pos	0	0	rpm	Unsignedint	0	4.29497e+009	P6	
	8198	Speed min neg	1	-			0	4 294970+009	PG	
	8199	T current lim	TPD32 Downloader	100	16	Conceptual Name	0	100	P7	
	8200	T current lim +	Port	Boot File			0	100	P8	
	8201	T current lim -	COM2	· c:'program files/sp	fran'gf	Drowse	0	100	P9	
	8205	Current lim red	Restate				0	100	P13	
	8211	S shape t const	19200	Programming utility			0	15000	P19	
	8212	Ramp +/- delay	10100	c:/program files/gr	tran'at	Browse	0	65535	P20	
8213 Apc. 0 8214 Apc. 0	Acc. delta speed	Adapter				0	4.29497e+009	P21		
	8214	Acc. delta time	PCI 485/PCI CON	TPD 32 Firmware Fi	e		0	65535	P22	
	8215	Acc. delta speed 1	Do Download	D: (TPD)/FLASH TPI	032-EV	Browee	0	4.29497e+009	P23	
	8216	Acc. delta time 1	Status : StandBy					65535	P24	
	8217	Acc. della speed 2						4.29497e+009	P25	
	8218	Acc. delta time 2				0	65535	P26		
	8219	Acc. delta speed 3				0	4.29497+009	P27		
	8220	Acc delta time 3		0	65535	P28				
	8221	Dec. delta speed		Close			0	4.29497e+009	P29	
	8722	Dec delta time	-	-		Internet and	0	65535	P30	
	8223	Dec. delta speed 1	100	100	rom	Unsignedint	0	4.29497e+009	P31	
	8224	Dec delta time 1	1	1	8	UnsignedShort	0	65535	P32	
	8225	Dec. delta speed 2	100	100	rpm	Unsignedint	0	4.29497c+009	P33	
	8226	Dec delta time 2	1	1	8	UnsignedShort	0	65535	P34	
	8227	Dec. delta speed 3	100	100	rom	Unsignedint	0	4.29497c+009	P35	
	8728	Dec delta time 3	1	1	8	UnsignedShort	0	65535	P36	
	8229	QSto delta speed	1000	1000	rom	Unsignedint	0	4 29497c+009	P37	
	8230	QSto della time	1	1		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.



Ienu X	IPA	Short Description	Value	Default value	Unit	Type	Min	Max	Name
Manu selection	8244	Dim factor text	rpm	rpm.		String	-		P52
All parameters	9487	Enable torque pr	Disabled	Disabled		Enum	-	-	P1295
InterfaceMenu	8193	Speed min amount	0	0	rpm	Unsignedint	0	4.294976+009	P1
WIZARD	8194	Speed max amount	5000	5000	rpm	UnsignedInt	0	4.29497e+009	P2
DIAGRAMS	8195	Speed max pes	5000	5000	rpm	Unsignedint	0	4.29497c+009	P3
- 🖉 Recipes	8195	Speed max neg	5000	5000	rpm	UnsignedInt	0	4.29497e+009	P4
	8197	Speed min pos	0	0	rpm	Unsignedint	0	4.29497c+009	P5
	8198	Speed min neg				disclose dist.	0	4.29497e+009	P6
	8199	T current lim	TPD32 Downloa	der			0	100	P7
	8200	T current lim +	Part	Doot File			0	100	P8
	8201	T current lim -	COM2	· c'program files/gr	eften'gf E	rouse	0	100	P9
-	8205	Current lim red	Cumpie			52	0	100	P13
	8211	S shape t const	TPUSZ Downloader	the second secon			0	15000	P19
	8212	Ramp +/- dalay			0	65535	P20		
	8213	Acc. delta speed	Power OFF the dri	ve, Close SD jumper on R-TPD	0	4.29497e+009	P21		
	8214	Acc. delta time	drive		0	65535	P22		
	8215	Acc. della speed 1			0	4.29497e+009	P23		
	8216	Acc. delta time 1			0	65535	P24		
	8217	Acc. della speed 2	1		0	4.29497e+009	P25		
	8218	Acc. delta time 2	L		0	65535	P25		
	8219	Acc. delta speed 3					0	4.29497e+009	P27
	8220	Acc. delta time 3					0	65635	P28
	8221	Dec. delta speed		Lose			0	4.29497e+009	P29
	8222	Dec. delta time	Y			unargineworront	0	65635	P30
	8223	Dec. delta speed 1	100	100	rpm	Unsignedint	0	4.29497e+009	P31
	8224	Dec. delta time 1	1	1	5	UnsignedShort	0	65535	P32
	8225	Dec. delta speed 2	100	100	rpm	Unsignedint	0	4.294976+009	P33
	8226	Dec. delta time 2	1	1	5	UnsignedShort	0	65535	P34
	8227	Dec. delta speed 3	100	100	rpm	Unsignedint	0	4.294976+009	P35
	8228	Dec. delta time 3	1	1	5	UnsignedShort	0	65535	P38
	8229	OStp delta speed	1000	1000	rpm	Unsignedint	0	4 294976+009	P37
	8230	QStp delts time	1	1	8	UnsignedShort	0	65535	P38
				III.					

Then press *OK* to start the download..

Windows progress will be displayed and at the end it will shown "All done".

nu X	IPA.	Short Description		Value		Defaultivalue	Unit		Type	Mit	1	Max		Name	
Manu selection	8244	Dim factor text	rpm	1	rp.m.			Stri	ng			-	P52		
All parameters	9487	Enable torque pr	Disa	bled E	Disab	led		Enc	m				P1295		
MIZARD	8193	Speed min amount	0	(	D		rpm	Unt	ignedint	0		4 29497e-009	P1		
	8194	Speed max amount	5000	) (	5000		rpm	Uns	signedint	0		4.29497e+009	P2		
	8195	Speed max pos	5000	1 1	5000		rpm	Uns	lignedint	0		4 29497e-009	P3		
Recipes	8195	Speed max neg	5000	) (	5000		(pm)	Uns	signedint	0		4.29497e-009	P4		
	8197	Speed min pas	0	0	D		rpm	Uns	lignedint	0		4 29497e+009	PS		
	8198	Speed min neg	-		-		-			0		4.29497e-009	PB		
	8199	T current lim	TPD	132 Downloader	100		16	1.01	-	0		100	P7		
	8200	T current lim +		Fort	B	oot File				0		100	PB		
	8201	T current lim -		сона 🔹	I F	c:/program files/get	ranigf	Browse		0		100	P9		
	8205	Current lim red		Inutrate			-			0		100	P13		
	8211	S shape t const	11	19200	P	Programming utility			0		15000	P19			
	8212	Ramp +/- delay			Cliptogram files/gefin IS/PCI COPT  TIPE32 Firmware File IS/POPLASH IPE3 alance Sending Loader file		ranigf Br	Browse	Browse	0		65535	P20		
	8213	Acc. delta speed		Adapter						0		4 294970-009	P21		
	8214	Acc. delta lime		NO AROPHICON					0		85535	P22			
	8215	Acc. delta speed 1	111	Abort			32.EV	Dro//se		0		4 294970-009	P23		
	8216	Acc. delta lime 1	10.1							0		85535	P24		
	8217	Acc. delta speed 2		Status: Sending						0		4 294970-009	P25		
	8218	Acc. delta time 2								0		85535	P26		
	8219	Acc. delta speed 3								0		4.294970-009	P27		
	8220	Acc. delta lime 3								0		85535	P28		
	8221	Dec. delta speed				Close				0		4 294970-009	P29		
	8222	Dec. delta time	-					-	homosoner	0		85535	P30		
	8223	Dec. deta speed 1	100		100		rpm	Uns	ignedint	0		4.29497e+009	P31		
	8224	Dec. detta time 1	1		1		8	Uns	signedShort	0		85535	P32		
	8225	Dec. deta speed 2	100		100		rpm	Uns	ignedint	0		4.29497c+009	P33		
	8225	Dec. delta time 2	1		1		8	Una	signedShort	0		65535	P34		
	8227	Dec. deta speed 3	100		100		rpm	Uns	ignedint	0		4.29497c+009	P35		
	8223	Dec. deita time 3	1		1		8	Una	lignedShort	0		65535	P36		
	8229	OStp delta speed	1000		1000		rpm	Uns	ignedint	0		4.29497c+009	P37		
	8230	QStp deits time	1		1		8	Una	lignedShort	0		65535	P38		
									-						

v X	IPA	Short Description	Value	Defaultivalue	Unit	Type	Min	Max	Name	
Manu selection	8244	Dim factor text	rpm	rpm		String		-	P52	
All parameters InterfaceMenu WIZARD DIAGRAMS	9487	Enable torque pr	Disabled	Disabled		Enum		-	P1295	
	8193	Speed min amount	0	0	man	Unsignedint	0	4 29497e+009	P1	
	8194	Speed max amount	5000	5000	rpm	UnsignedInt	0	4.29497e+009	P2	
	8155	Speed max pos	5000	5000	rpm	Unsignedint	0	4.29497e+009	P3	
🖞 Recipes	8196	Speed max neg	5000	5000	rpm	UnsignedInt	0	4.29497e+009	P4	
	8197	Speed min pas	0	0	rpm	Unsignedint	0	4.29497a+009	P5	
	8158	Speed min neg	1		-		0	4.29497e+009	P6	
	8159	T current lim	TPD32 Downloader	100		taken provide the second	0	100	P7	
	8200	T current lim +	Port	Boot File			0	100	PB	
	8201	T current lim -	COM2	· criprogram files	'gefran\gf E	trowner	0	100	P9	
	8205	Current lim red	Baudrate	- 1			0	100	P13	
	8211	3 shape t const	19200	Programming ut	tγ		0	15000	P19	
	8212	Ramp +/- delay	1	c'program files	'gefran'gf	Browse	0	65535	P20	
	8213	Acc. delta speed	Adapter				0	4.29497e+009	P21	
	8214	Acc. delta lime	PC HOUPCICOP	TPC32 Firms and	File		0	85535	P22	
	8215	Acc. delta speed 1	Abert	D:\/PD\/EASH	IPD32-EV	Drowse	0	4.29497e+009	P23	
	8216	Acc. delta lime 1				0	65535	P24		
	8217	Acc. delta speed 2	Stehn: Ser	alog Fernane file - 3495	t hytes		0	4.29497e+009	P25	
	6218	Acc. delta lime 2					0	65535	P28	
	8219	Acc. delta speed 3					D	4.29497e+009	P27	
	0220	Acc. delta lime 3			1		0	65535	P28	
	8221	Dec. delta speed		Close			0	4.29497e+009	P29	
	0222	Dec. delta time			-	Unerginesconof	0	65535	P30	
	8223	Dec. delta speed 1	100	100	rpm	Unsignedint	Ð	4.29497e+009	F31	
	8224	Dec. delta time 1	1	1	8	UnsignedShort	0	65535	P32	
	8225	Dec. delta speed 2	100	100	rpm	Unsignedint	0	4.29497e+009	P33	
	8226	Dec. delta time 2	1	1	8	UnsignedShort	0	65535	P34	
	8227	Dec. delta speed 3	100	100	rpm	Unsignedint	0	4.29497e+009	P35	
	8228	Dec. delta time 3	1	1	8	UnsignedShort	0	65535	P36	
	8229	OStp delta speed	1000	1000	rpm	UnsignedInt	0	4.29497e+009	P37	
	8230	OStp deits time	1	1	8	UnsignedShort	0	65535	P38	
	1									-

rpm rpm rpm rpm 0 5000 5000 5000 Reci Port COM2 Boot File

C:/program files/gefranigf Browne Daudrate 19200 Programming utility
 Cryprogram files/gefran/gf
 Browse Adaptar PCI 485/PCI COM TPD32 Permane File Do Download Close Dec detta si QStp detta si QStp detta si 100 1 100 1 100 1 1000 s rpm s rpm s rpm s 1 100 1 1000 Q No alarma Slink, Add: 0, Part:COM2 CONNECTED

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.



nu X	IPA	Short Description	Value	Default value	Unit	Type	Min	Max	Name
Manusalection	8244	Dim factor text	rpm	rpm		String			P52
C All parameters	9487	Enable torque pr	Disabled	Disabled		Enum			P1295
InterfaceMenu WIZARD	8193	Speed min amount	0	0	rpm	Unsignedint	0	4.294976+009	P1
	8194	Speed max amount	5000	5000	rpm	UnsignedInt	0	4.29497e+009	P2
	8195	Speed max pos	5000	5000	rpm	Unsignedint	0	4.29497c+009	P3
Recipes	8195	Speed max neg	5000	5000	rpm	UnsignedInt	0	4.29497e+009	P4
	8197	Speed min pos	0	0	rpm	Unsignedint	0	4.29497c+009	P5
	8198	Speed min neg	r			Underseller	0	4.29497e+009	P6
	8199	T current lim	TPD32 Downloads				0	100	P7
	8200	T current lim +	Purt	Doot File			0	100	P8
	8201	T current lim -	COM2	· ciprogram filesige	fan laf E	reuse	0	100	P9
	8205	Current lim red	Company of the local division of the local d		-		0	100	P13
	8211	S shape t const	TPUSZ_DOMPTODOST	- Names and	0	15000	P19		
	8212	Ramp +/- dalay			0	65535	P20		
	8213	Acc. delta speed	Power CFF the drive,	Open SD jumper on R-TPD:	0	4.29497e+009	P21		
	8214	Acc. delta time	drive		0	65535	P22		
	8215	Acc. della speed 1			0	4.29497e+009	P23		
	8216	Acc. delta time 1					0	65535	P24
	8217	Acc. della speed 2				CK	0	4.29497e+009	P25
	8218	Acc. delta time 2					0	65535	P25
	8219	Acc. delta speed 3					0	4.29497e+009	P27
	8220	Acc. delta time 3				-	0	65635	P28
	8221	Dec. delta speed		Close			0	4.29497e+009	P29
	8222	Dec. delta time				onangregoment	0	60035	P30
	8223	Dec. delta speed 1	100	100	rpm	Unsignedint	0	4.29497e+009	P31
	8224	Dec. delta time 1	1	1	5	UnsignedShort	0	65535	P32
	8225	Dec. delta speed 2	100	100	rpm	Unsignedint	0	4 294976+009	P33
	8226	Dec. delta time 2	1	1	5	UnsignedShort	0	66635	P34
	8227	Dec. delta speed 3	100	100	rpm	Unsignedint	0	4 294976+009	P35
	8228	Dec. delta time 3	1	1		UnsignedShort	0	65535	P38
	8729	OStp delta speed	1000	1000	rpm	Unsignedint	0	4 294974+009	P37
	8230	QStp delta time	1	1	8	UnsignedShort	0	65535	P38
	4								

When finished, press the OK button and then click on Close to exit.

## **Convert MDPLC par file**

🍿 par2gftW		×
Parameter File Configuration File	appConfig.xml	
Generate wex file wex 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)
- wex destination folder: path of the folder containing the .wex output file (optional)

It builds :

- a .xml file extended as .wex (Output File)
- a .gft file of the MDPLC application (Output File), that will be used from WEG\_eXpress starting from a .par file.

Configuration File path is already set, don't need to change it.

#### User Manual

Description: WEG\_eXpress PC Configurator Revision: 0.0 Date: 4-1-2023 Code: WEG Automation Europe S.r.l. Via Giosuè Carducci, 24 21040 Gerenzano (VA) · Italy

www.weg.net

Driving efficiency and sustainability

