



Version	Datum	Modification	Compiled by
Version 1.0	20.06.2010	First published version	Attila Füzes
Version 2.0	02.10.2013	Second published version	Gábor Szaniszló

CONTENTS

1	Intro	oduction	. 4
2	Sys	tem requirements	. 4
3	Get	ting started	. 4
4	Mer	nu items	. 5
	4.1	Main panel	. 5
	4.2	Parameters	. 6
	4.3	System settings	. 9
	4.4	Online data	10
	4.5	Events	11
	4.6	Disturbance recorder	12
	4.7	Commands	14
	4.8	Network protectionHood	15
	4.9	Documentation	15
	4.10 4.10 4.10 4.10 4.10	Advanced	16 16 17 19 20

1 Introduction

This product is a special user interface to the Europrot+ device family. With the user-friendly interface, you can easily manage the device. Password protection is available to grant certain privileges and access to special functions.

2 System requirements

A web browser and an Ethernet connection is needed in order to access the device interface. HTML5 compatible web browser is recommended. To properly display the data on the screen, it is recommended that the user have a screen resolution of at least 1024x768. The following web browsers can be used:

- Microsoft Internet Explorer version 7.0 or higher
- Mozilla Firefox version 1.5 or higher
- Apple Safari version 2.0.4 or higher
- Google Chrome version 1.0 or higher
- Opera version 9.25 or higher

JavaScript must also be enabled within your browser. For security reasons, the device allows only limited number of connections over the network.

3 Getting started

Make sure you are connected to the device and have JavaScript enabled within your browser. For detailed information read the <u>Quick Start Guide</u>. The recommended browser is Mozilla Firefox version 23 or higher, and all examples shown in this document are performed with Firefox. Type the IP address of the device into your browser's address bar.

The currently selected menu item is highlighted in black (Fig.1). In some configurations, the currently displayed language can be changed. To do this, simply click one of the other available languages represented by the flags and the page will be refreshed in the desired language. Changing the display language affects only the local browser of the user. Other browsers and the language of the touch screen will not be modified. In case the content area is too long, the user can scroll down and the menu bar will follow the user.

4 Menu items

4.1 Main panel



Fig. 1. Main menu

The front panel of the device can be controlled from here (Fig 1). The image in the center of the screen behaves the same way as the touch screen and the LEDs, except the on (1) and the off (0) buttons. These two buttons are insensitive for security reasons. The X button on the bottom of the front panel picture initiates a LED reset. Text appearing by a LED is coming from the configuration and may be different than the label inserted.

Identification - User can change the station and device names from this panel by typing in the new values and clicking on the Rename button. IEC61850 IED name field is here only for information. It depends on the IED name and allowed to change with the EuroCAP communication configuration tool.

Information part - There are some fields for measuring device operating time. Uptime fields display the time elapsed from the last power on of the device. CDSP is for the communication processor, RDSP is for relay processor unit. Device lifetime field value equals the number of days of the device's energized state.

Serial number information is also available in this panel, in case of contacting <u>support team</u> please use this number as a reference of your product.

4.2 Parameters

Various parameters and variables can be viewed and changed in this menu item. The user can manage different parameter sets with the ability to set, rename, export and import them. A password can be applied for the import, export and set settings options. All parameters are part of a certain function block which can be individually opened or closed using the [+] or [-] symbol. Parameter values are displayed and can be modified in text fields, list boxes or check boxes.

[+] Common				
[-] VT4 module				
	Device value	New value		
Range	Type 100	Туре 100	-	
Connection U1-3	Ph-N-Isolated	Ph-N-Isolated	-	
Connection U4	Ph-Ph	Ph-Ph	-	
Direction U1-3	Normal	Normal	-	
Direction U4	Normal	Normal	-	
VT correction	100	100	%	(100 - 115 / 1)
Rated Primary U1-3	100.00	100.00	kV	(1.00 - 1000.00 / 0.01)
Dated Drivery 114	100.00	100.00	kV	(1.00 - 1000.00 / 0.01)

Fig. 2. Parameter settings

Buttons on the top of the parameter's sheet provide fast expanding and collapsing all the function panels make finding a parameter easy. Print button generates a printer-friendly layout opened in a new browser window. The [+] and [-] signs open and close the function block parameters individually.

General layout of the parameter's sheet divides columns:

The first column contains the name of the parameter, this text is coming from the configuration of the device. If it is a multilingual device (configuration prepared with multi-language titles) changing the language of the main menu will change this name also.

Second column displays the current values of the selected parameter set stored in the device. Selection can be made by choosing an item from the combo-box of the main menu. Changing the parameter set here doesn't mean activating it, only loading to the fields. You can find more information on activation in this chapter later.

Third column used to give the desired value by the user. In the moment of changing its color goes to blue for taking the user's attention. The expected value range and step are on the right end of the parameter line.

The detailed description of fields are as follows:

Textfield – *Text fields* hold values that can be modified. To prevent invalid values from being loaded into the device, make sure that all values entered are within proper range. In case a wrong value is entered, the user is alerted and the value is reset to the last correct value. When the current value is changed, the number is displayed in red.

Listbox - By clicking on the list box, the user can choose from the available values listed within the box. If a value other then the default one is selected, the letters and box outline

will change into red, just like in the case of text fields. (The list box represents enumerated type parameters.)

Checkbox - The user can enable or disable certain functions and properties with the check box, by clicking on the box. If the check box is ticked, the parameter is enabled. In contrast, if the check box is empty, the parameter is disabled. (The check box represents boolean type parameters.)

Unit - This displays the unit of parameter where applicable. Not all parameters have units.

Range / Step - This applies only to text fields; it displays the range a value can take. The step value represents the amount by which the value can be incremented/decremented. For example, if a parameter has a default value of 100 with a range of 1-1000 and a step value of .01, its value can be changed to 99.99, or 99.98, or 99.9, or 99 or 100.01, or 100.02, or 100.1, or 101, and so on. The value cannot go below 1.00 or above 1000.00, since that would be out of range. As another example, if the same parameter had a step value of 5, then we could only change the default value of 100 to 95, or 105, and so on.



Fig.3. Main menu view with and without parameter set (configuration dependent)

Modified parameter values can be written into the selected parameter set by clicking Set parameters button on the main menu panel. In case of a single-parameter device there in no parameter set selector combo-box, as can be seen at the left side of figure 3.



Fig 4. Unsaved data when leaving the page

Values are checked for change if the user navigates away from the page or he would like to load another parameter set. By pressing Cancel, the browser will return to the page. If you would like to ignore the changes made, simply press OK.

Towards the bottom of the page, there are options to manage parameter sets. These buttons and functions only appear if the device is configured to have more than one parameter set. The following buttons are available:

perault_set_1	Rename	Save parameters		
Default_set_2	Rename	Save parameters	Activate	
				\$

Fig. 5. Parameter set control field

Activate - This enables to activate the parameter set that in line with the button so the device will use the values from that specific set. Note: This button only appears, if there is more then one parameter set. The active parameters name will be displayed in green. Activating a parameter set doesn't load the values to the edit fields above. Parameter set values can be load into the editable fields using the combo-box placed in the main menu panel on the left side.

Rename - This renames the selected parameter set. Make sure that you use alphanumeric characters, spaces, dashes, or underscores as input and that no another set has the same name.

Reset to defaults - This resets the values on screen with the factory default settings.

Load parameters - This loads a previously saved parameter file, and sets the values on the screen based on its contents.

4.3 System settings

This is the menu item where adjustments can be made to some miscellaneous device settings. This menu item can be password protected. The text fields, list boxes, and check boxes are almost the same as in the parameters menu item except for one type of text field, the IP address field which is found only here, in the system settings menu item.

- line data					
ents	[-] System parameters				
turbance recorder		Device value	New value		
mmande	Safe settings				
	Powersystem frequency	60 Hz	60 Hz	<u> </u>	
cumentation					
vanced	[-] Station bus settings				
vanceu					
Set settings	10	Device value	New value		
	IP address	192.168.0.152	192.168.0.152		
	Netmask	255.255.0.0	255.255.0.0		
	Default gateway	192.168.1.1	192.168.1.1		
	DNS1 address	0.0.00	0.0.00		
	DNS2 address	0.0.0	0.0.00		
	DHCP server	Disabled	Disabled	×	
	DNS2 address DHCP server [+] Ethernet comm.	0.0.0.0 Disabled	0.0.00 Disabled	×	

Fig.6. System settings menu

The behavior of the system Settings sheet is very similar to the Parameters sheet. The short description of the system parameters are as follows:

Safe settings – If enabled, device's LCD screen will ask user to confirm the save of new settings. If Set parameters or Set settings button clicked and there is at least one parameter changed, user must press the "I" (ON) button on the front panel of device locally. Choosing "O" (OFF) button discards the changes, selection can be made within 300 seconds.

Power system frequency – 50 or 60 Hz, default setting is 50Hz. *Warning:* changing this parameter initiates system restart.

Station bus settings – This field contains settings for the IPv4 based communication like IP address, mask, gateway, and DNS addresses. The DHCP server function can be switched on with a combo-box. *Warning:* uncontrolled use of DHCP server function may cause serious communication failures.

Ethernet communication – The device can communicate using several Ethernet based protocols at the same time. Only the IEC61850 communication is licensed, all the other protocols are available by default. The GOOSE repeat rate combo-box can be used for adjusting T0 time of the Generic Object Oriented Substation Event messages.

Serial communication – Only one protocol can be selected for serial communication purposes, physical parameters can be set in this field. Note that serial communication needs proper CPU card.

Time synchronization – The device handles broad range of time synchronization protocols: NTP server (SNTP), serial communication, and different pulse inputs. If Time sync warning parameter is enabled, and device is not synchronized, an alarm is raised (status LED goes yellow).

Time zone settings – Use this field to set the offset to the GMT time and the settings of daylight saving.

LCD back-light – Parameters in this field controls the behavior of the LCD panel. Back-light will switch off after its timeout. The Back-light group is useful if you have more than one device close to each other. Touching one of them will switch on all devices belong to the same group.

4.4 Online data

This displays data measured by the device. The values on the screen are updated every second. All data on this page is read-only, therefore they cannot be modified. In case there is a counter on the page, there will be a button next to it, which will reset it.



Fig. 6. On-line sheet

Binary data is displayed as check box, enumerated data will presented as text information. If user has HTML5 compatible Internet browser, analogue measurements will be drawn as vectors.

4.5 Events

The Events page displays the internal event list of the device. Every event is listed with time stamp, function block channel name, function block channel and its new status text. Time resolution is 1 ms.

If mouse hangs over for a short time on a function block name, all event lines belongs to the same function block will be highlighted. Also, if mouse is over a channel name, all events with the same text will be highlighted (Fig.7).

Event page is not refreshed automatically, user can click on the Refresh button. Erasing all events and exporting them to a text file is also possible.

main					Events
narameters					
purumeters	Funnet Hat				
system settings	Event list				
on-line data					
	2013-09-17 11:26:56.349	16Ch Event 2	Hibas allas	Off	
events	2013-09-17 11:26:57.333	16Ch Event 2	Hibas allas	On	
isturbance recorder	2013-09-17 11:27:46.653	16Ch Event 2	Hibas allas	Off	
	2013-09-17 11:27:47.641	16Ch Event 2	Hibas allas	On	
ommands	2013-09-17 14:20:01.537	Common	Health of device	Ok	
	2013-09-17 14:20:01.537	16Ch Event 2	Tay muk eng	On	
etwork protectionHood	2013-09-17 14:20:01.537	16Ch Event 2	Input15	On	
locumentation	2013-09-17 14:20:01.537	MV AutoReclosing	Blocked	On	
	2013-09-17 14:20:01.537	MV AutoReclosing	FZT blocked	On	
dvanced	2013-09-17 14:20:02.525	16Ch Event 2	Hibas allas	On	
	2013-09-17 14:20:06.525	16Ch Event 2	Aut bena	On	
	2013-09-17 14:20:31.522	16Ch Event 1	Rugo Jaza HIBA	On	
	2013-09-17 14:20:31 522	16Ch Event 2	Hiba a mezoben	On	
	2013-09-17 15:17:54.340	Common	Health of device	Ok	
	2013-09-17 15:17:54.340	16Ch Event 2	Tay muk eng	On	
	2013-09-17 15:17:54.340	16Ch Event 2	Input15	On	
	2013-09-17 15:17:54.340	MV AutoReclosing	Blocked	On	
	2013-09-17 15:17:54.340	MV AutoReclosing	FZT blocked	On	
	2013-09-17 15:17:55 328	16Ch Event 2	Hibas allas	On	
	2013-09-17 15:17:59.328	16Ch Event 2	Aut bena	On	
	2013-09-17 15:18:24.328	16Ch Event 1	Rugo Jaza HIBA	On	(=)
	2013-09-17 15:18:24.328	16Ch Event 2	Hiba a mezoben	On	Ų

Fig. 7. Events sheet

4.6 Disturbance recorder

The Disturbance records (Fig.8.) panel allows the user to download or view the recorded disturbances. Every record is stored in COMTRADE format and can be downloaded in a zipped file (with CFG, INF and DAT files inside). The displayed trip time information is used as a reference to the stored records.

A simple built-in preview function makes work more easy (Fig.9 and 10). This viewer provides the fast evaluation possibility of the disturbance event. Both analogue and binary channels displayed on the screen. On the right side there is a floating panel with some buttons to control the behavior of the display. Buttons with plus and minus sign used for adjusting the horizontal zoom of the picture. Clicking on the 100% button resets the view to the default horizontal size. Scale mode is a toggle button to change the way of the analogue channel drawing. By default, it is drawn using a common vertical scale calculated from all available analogue channels with the same unit parameter. In other words it uses a grouping of the channels according to their unit. If the user clicks on this button, every analogue channel will be drawn with its individual scale calculated from the maximal value of that channel.

main		Disturbance Recorder
parameters		
evetem settinge	Recorded disturbances	
system sectings		
on-line data	Download View 2013.09.17 16:54:56.845 (102970 bytes)	
events	Download View 2013.09.17 16:56:29.557 (28398 bytes)	
disturbance recorder	Download View 2013.09.27 08:49:24.630 (28398 bytes)	
commands	2013.09.27 08.49.28.140 (2036) bytes)	
network protectionWood		
network protectionnood		
documentation		
advanced		
** =		6
	Refresh Erase all records Manual start	

Fig. 8. The disturbance records list panel



Fig.9. The disturbance record preview – analogue channels



Fig.10. Disturbance record's binary channels

4.7 Commands

Device may contain function blocks with controllable objects. Most of them can be controlled from this page (Fig.11). A confirmation dialog will ask the user to confirm the command before it is really released (Fig.12.).

main			Commands
parameters			
system settings	Common		
on-line data	Mode of device	On Blocked Test	
events		Test/Blocked Off	
disturbance recorder	LEDReset	Off On	
commands			
network protectionHood	MV AutoReclosing		
documentation			
advanced	VKA	Release Block	
	FZT	Release Block	
₩			
	Circuit Breaker	3	
	Operation	off on	
	Disconnector		
	Operation	off on	
	Disconnector		
	Operation	0// 00	

Fig.11. Command sheet

main			Commands
parameters system settings	Common		
on-line data	Mode of device	On Blocked Test	
disturbance recorder	LEDReset	TrestBlocked Off Off On	
network protectionHood documentation advanced	MV AutoReclosing VKA FZT	Are you sure to execute the following command: Circuit Breaker Operation On?	
*	Circuit Breaker	Cancel	
	Disconnector		

Fig.12. Confirmation dialog

4.8 Network protectionHood

This panel shows devices that are located on the same network as the device. Compatible devices are identified and information is displayed about them. The device highlighted in red is the one that is currently accessed. By clicking on the other links, the user will be redirected to the corresponding device.

vstem settings	Device	s found on th	e network							
n-line data	Health	IP address	Platform	Station name	Device name	Version	Canability	RDSP/XIIInx	CDSP rev.	Station bus MAC
ents	0	192.168.73.51	EuroProt+	Protecta Lab	ATK Teszt	2.8.13	1>, Id, Z<	1399/x0.6	897	00:22:DD:00:01:57
	ō	192.168.11.12	EuroProt+	PROTECTA Kft.	E1-DTIVA F	2.8.13	>	1399/x0.6	878	00:22:DD:00:07:5A
isturbance recorder	Ö	192.168.10.41	EuroProt+	EON Demo	E2-DTVA-OX	2.8.13	I>, Id, Z<	1399/x0.6	912	00:22:DD:00:07:68
ommands	0	192.168.116.3	EuroProt+	Protecta	CT1_TEST	2.8.12	I>, Id, Z<	1135/x0.6	736	00:22:DD:00:03:85
	Ø	192.168.0.246	EuroProt+	Géza asztala	Géza teszt	2.8.13	l>, ld, Z<	(Mod)1406/x0.6	912	00:22:DD:00:07:86
etwork protectionHood	0	192.168.0.152	EuroProt+	Protecta/szani	buildroot linux	2.8.13	I>, Id, Z<	(Mod)1378/x0.6	912	00:22:DD:01:88:99
locumentation	0	192.168.15.87	EuroProt+	E.ON teszt	DTVA slave	2.8.13	I>, Id, Z<	1399/x0.6	912	00:22:DD:00:03:9E
ocumentation	0	192.168.0.234	EuroProt+	"Protecta"	Gömbös "Péter"	2.8.13	l>, ld, Z<	(Mod)1399/x0.6	913	00:22:DD:00:00:A1
dvanced	0	192.168.3.201	EuroProt+	Fejlesztes	DGYD_Geza	2.8.13	I>, Id, Z<	1399/x0.6	902	00:22:DD:00:04:AF
	0	192.168.11.40	EuroProt+	Paks	ATK	2.8.13	>	(Mod)1408/x0.6	878	00:22:DD:00:06:D5
	0	192.168.15.115	EuroProt+	Nádudvar	E4-DKTVA_F	2.8.13	I>, Id, Z<	1373/x0.6	878	00:22:DD:00:03:DA
	0	192.168.0.151	EuroProt+	Protecta	Szani teszt	2.8.13	I>, Id, Z<	(Mod)1360/x0.6	912	00:22:DD:00:01:DD
dvanced	O O Re	192.168.3.201 192.168.11.40 192.168.15.115 192.168.0.151	EuroProt+ EuroProt+ EuroProt+ EuroProt+	Fejlesztes Paks Nádudvar Protecta	DGYD_Geza ATK E4-DKTVA_F Szani teszt	2.8.13 2.8.13 2.8.13 2.8.13	>, ld, Z< > >, ld, Z< >, ld, Z<	1399/x0.6 (Mod)1408/x0.6 1373/x0.6 (Mod)1360/x0.6	902 878 878 912	00:22:DD:00:04 00:22:DD:00:06 00:22:DD:00:03 00:22:DD:00:01

Fig.13. Network protection-hood

4.9 Documentation

This panel displays the documentation files on the device. The user can upload any documents and files, which will be saved on the device and will be accessible for later use. There is a 8 MB limit available, single file size maximum is 2MB.

main	Documentation
parameters	
system settings	Embedded documents
on-line data	Files not found
events	
disturbance recorder	User documents
commands	en+ in network opt (588.0 kbytes) Delete
network protectionHood	
documentation	File limit is 2048k per file. Available storage size is 7.4 Mbytes.
advanced	
* =	Upload
	6
	T.
	PROTECTA
	HUNGARY



4.10 Advanced

This menu item displays a submenu of other options available. A password can be set to allow access to these menu items.

4.10.1 Password manager

	Passwords
Master password	
This password permits the access to the advanced menu items. Password must contain numbers and latin letters only, length should be 3-8 chars.	
month because and because	
Password for Settings	
This password permits the setting of the parameters. If there is no password set anybody can set the parameters from the WEB or the HML Password must contain numbers and latin tetters only. length should be 3-8 chars.	
Modify password Clear password	
Password for Control	
This password permits the control operation of the device. If there is no password set anybody can execute control operation from the WEB or the HMI. Password must contain numbers and latin letters only, length should be 3-8 chars.	
Modify password Clear password	
	PROTECTA
	Master password This password permits the access to the advanced menu items. Password must contain numbers and latin letters only, length should be 3-8 chars. Modfy password Clear password Password for Settings This password permits the setting of the parameters. If there is no password set anybody can set the parameters from the WEB or the HML Password must contain numbers and latin letters only, length should be 3-8 chars. Modfy password Clear password Password for Control This password must contain numbers and latin letters only, length should be 3-8 chars. Modfy password Clear password Password for Control This password must contain numbers and latin letters only, length should be 3-8 chars. Modfy password Clear password Modfy password Clear password

Fig.15. Password manager dialog

Passwords are used to prevent unauthorized access to the device. There are three password levels defined:

- Master password controls the access to the advanced menu. This prevents unauthorized access to the password control dialog also.
- Password for settings makes the parameterization more safe. When creating new
 password user is allowed to define its target: password for local (LCD) setting
 operation, password for remote (web) operation or both.
- Password for control works very similar than the password for settings. This is the protection for the commands web page.

The user must type in the password two times to avoid typing mistakes (Fig.16).

New password	×
Please enter the new passw Retype the new password	d:
This password is used for:	 Local and remote operations Local HMI (LCD) operation only Remote (WEB) operation only
ок	Cancel
	PROTECTA

Fig.16. Password input dialog

4.10.2 Status/log

Status fields' detailed information is as follows:

						Status/Loo
Card	•					,;
caru	•					
Slot	Configured	Detected	Serial Nr.	Status		
	CPU+/1201	CPU+/1201	12100347	matched		
(0)	VT+/2211	VT+/2211	11012342	matched		
(1)	CT+/5102	CT+/5102	10024868	matched		
(2)	CT+/5151	CT+/5151	10024894	matched		
(3)	CT+/5151	CT+/5151	1009615	matched		
(5)	VT+/2211	VT+/2211	12001204	matched		
10)	R16+/0000	R16+/0000	09006532	matched	N	
11)	R16+/0000	R16+/0000	09006514	matched	3	
(12)	016+/2201	016+/2201	9006429	matched		
(16)	TRIP+/2201	TRIP+/2201	1009041	matched, incomplete card!		
(19)	PS+/2301	PS+/2301	12104264	matched		
MI	HMI+/3501	HMI+/8400	1014785	matched		
	DUIC - 10403			pagelup hug		

Fig. 17. Card info field

In the cards field (Fig.17) device hardware configuration must match to the configuration file created by the PC software. In case of any deviance user can get more information about the problem in this field.



Fig.18. Device nameplate

Device nameplate (Fig.18) contains product information and basic data of the device.

LOG files			
System log files	RDSP log	System messages	
HMI log files	LCD log	Web access log	Web error log
Communication log files	SPORT comm. log	Serial comm. log	IEC61850 log

Fig.19. LOG files field

In LOG files field (Fig.19) internal information about the specific part of the device (RDSP, system, LCD, etc.) can be found.

SP warning: 0x0020 (Time sync,)	Warnings and Errors		
	DSP warning: 0x0020 (Time sync,)		

Fig.20. Warnings and Errors

Serious errors (red status LED) and warnings (yellow status LED) are listed in the Warnings and Errors field (Fig.20). In the example: time synchronization error is generated when its check box is ticked on the time sync. part of system settings page and there is no synchronization message received.

Fig.21. Report button

In case of any error it is recommended to generate a report file, which may contain relevant information for the manufacturer. Please send it to the support team.

Download IEC61850 files	Get .CID file	Get .ICD file
Download IEC60870-5-101/103/104 file	Get file in XML format	Get file in TEXT format
Download Modbus information file	Get Modbus file	
Download DNP3 configuration file	Get DNP3 file (html)	Get DNP3 file (csv)
Download SPA configuration file	Get SPA file (html)	Get SPA file (csv)
Export protection parameters	Export to XML format	

Fig.22. Communication files

Communication files (Fig.22) can be downloaded by clicking the appropriate button.

Ethernet links		
Primary station bus fiber optic port	Up	
Redundant station bus fiber optic port (optional)	Down	
RJ-45 port on rear side (optional)	Down	
EOB/RJ-45 port on front panel	Down	
Process bus fiber optic port (optional)	Down	

Fig.23. Ethernet link info

The status of the ports of the internal switch are displayed in the Ethernet links window (Fig.23).

Device housekeeping		
Total system memory	62136 kB	
Free system memory	31852 kB	

Fig.24. Memory info

Memory info field (Device housekeeping, Fig.24) provide information about the CDSP resources.

From NTP1 source	Ok	
From NTP2 source	Disabled	
From legacy protocol	Disabled	
From binary input (pinsync)	Disabled	

Fig.25. Time synchronization info

Time synchronization field (Fig.25.) shows information about time synchronization supervision.

4.10.3 I/O tester

The web page for advanced functions provides I/O simulation.

Front panel LED test - by clicking on this button the front LEDs will be tested with a blink sequence

Simulate binary inputs (Fig. 26) - by enabling this function user can simulate the inputs. For safety reason this function must be confirmed on the LCD screen on the device. The LED symbol between the SET and RESET buttons shows the current state of the input: red if activated, green if inactive. Simulation mode can be disabled with the button on top of the input control buttons.

Direct control of the output contacts - prior to use this function the device should be switched to Test/Blocked mode on the command screen. If the mode changing was successful, the output contacts can be forced by the user. The confirmation request must be accepted on the LCD. The LED symbol between the SET and RESET buttons shows the current state of the output: red if activated, green if inactive. To disable this function change the mode of the device to ON state on the commands web page.

Input simulator mode	Disable		
TCS1	Reset) • (Set
TCS2	Reset) • (Set
CB open	Reset) • (Set
CB close	Reset) 🔹 🧉	Set
Man Close	Reset) • (Set
VT Fail	Reset) • (Set
Bln_D05	Reset) • (Set
Bln_D06	Reset) • (Set
Bln_D07	Reset) • (Set
AR start	Reset) • (Set
AR disable	Reset) • (Set
AR delay	Reset) • (Set
Remote Trip	Reset) • (Set
BIn D12	Reset		Set

Fig. 26. Input simulator mode

4.10.4 Update manager

Device firmware can be upgraded when a new version is available. Information about the current RDSP and CDSP firmware and also for the downloaded configuration file can be found in the text fields (Fig.27).

To update, click on the Update button, select the appropriate file and click OK. A dialog on the LCD will ask you to confirm updating.

	Update
Relay DSP firmware	
Version: 2.8.13	
SVN revision: (Mod)1378	()
.omplie date: 2013/08/06 09:45:26 Omplie date: 27017710, MSW - 05: Windows NT/2000/VP - Username, stanistic	U
Gilinx revision: 0.6	
Active firmware: 'A'	
1le name: rfw-epp.ldr (533644 bytes) Ipload date: 21-Aug-2013 13:55:20 GMT	U
Update	
Comm. DSP firmware	
UnaDrati sustam varsian, 2.9.12	
Surficient System Version: 2.0.13 Surficient Niewart 2010 06.syn687 (ADI-2010R1-RC2) (Nov. 04.2011 - 14.31.46)	
ACTIVE TIRMWARE: 'A'	
Active firmware: "A" kernel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013	
xctive Trimware: A' ernel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 toolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RC4)	
xctive Trmmware: 'Α' ernel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 :oolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RC4) ser-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g	ombos
kctive Tirmware: 'Α' errnel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 coolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RC4) iser-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g	ombos
<pre>kclive Trmmvare: 'A' cernel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 coolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RC4) user-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g </pre>	ombos
<pre>sctive Trmware: 'A' cernel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 toolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RC4) iser-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update</pre>	ombos .d
<pre>kctive Tirmware: 'A' errnel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 toolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RCA) iser-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Update</pre>	ombos
<pre>ctive Tirmware: 'A' ernel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 solchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RC4) ser-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Update</pre>	ombos
<pre>xctive Trmmware: 'A' xcrive Trmmware: 'A' xcrive Trmmware: 'A' xcrive Trmmware: 'A' xcrive Trmmware: 'A' xconclasse 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 toolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RC4) xser-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration</pre>	ombos
<pre>kctive Tirmware: 'A' cernel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 coolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RC4) user-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration</pre>	ombos
<pre>kctive Tirmware: 'A' cernel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 coolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RCA) user-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration Config ID: E4-Feeder_H</pre>	ombos
<pre>ctive Tirmware: 'A' ernel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 solchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RCA) ser-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration onfig ID: E4-Feeder H ile date: 01-0ct-20I3 15:18:33</pre>	ombos
<pre>ctlve Tirmware: 'A' ernel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 solchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RC4) ser-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration Config ID: E4-Feeder H ile date: 01-0ct-2013 15:18:33 add date: 01-0ct-2013 15:18:33 </pre>	ombos
<pre>kctive Tirmware: 'A' cernel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 coolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RCA) user-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration onfig ID: E4-Feeder_H ile date: 01-Oct-2013 15:18:33 oad date: 01-Oct-2013 15:18:33 ile name: E4-Feeder_H.epc, 2299302 bytes</pre>	ombos
Active Timmware: 'A' errnel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 toolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RCA) iser-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration ionfig ID: E4-Feeder_H ile date: 01-Oct-2013 15:18:33 .oad date: 01-Oct-2013 15:18:33 ile name: E4-Feeder_H.epc, 2299302 bytes	ombos
<pre>kctive Tirmware: 'A' kcrive Tirmware: 'A' kornel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 toolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RCA) user-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration Config ID: E4-Feeder_H File date: 01-0ct-2013 15:18:33 .oad date: 01-0ct-2013 15:18:33 .ile name: E4-Feeder_H.epc, 2299302 bytes</pre>	ombos
Active Tirmware: 'A' ecrnel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 toolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RC4) user-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration Sonfig ID: E4-Feeder_H 'ile date: 01-0ct-2013 15:18:33 .ad date: 01-0ct-2013 15:18:33 'ile name: E4-Feeder_H.epc, 2299302 bytes	ombos
<pre>kctive Tirmware: 'A' cernel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 coolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RCA) user-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration Config ID: E4-Feeder_H ile date: 01-Oct-2013 15:18:33 coad date: 01-Oct-2013 15:18:33 ile name: E4-Feeder_H.epc, 2299302 bytes</pre>	ombos
<pre>kclive Timmare: 'A' kclive Timmare: 'A' konnection release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 toolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RCA) iser-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration Config ID: E4-Feeder_H Tile date: 01-oct-2013 15:18:33 coad date: 01-oct-2013 15:18:33 File name: E4-Feeder_H.epc, 2299302 bytes </pre>	ombos
Active Timmare: 'A' errnel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 toolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RCA) user-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration Config ID: E4-Feeder_H "ile date: 01-Oct-2013 15:18:33 .oad date: 01-Oct-2013 15:18:33 -ile name: E4-Feeder_H.epc, 2299302 bytes	onbos
<pre>kclive Tirmware: 'A' kcrive Tirmware: 'A' kornel: Linux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 toolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RCA) user-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration Configuration interval i</pre>	
<pre>kctive Tirmware: 'A' inux release 2.6.34.7-ADI-2010R1-svn912, build #5471 Thu Sep 19 15:30:38 CEST 2013 coolchain: bfin-uclinux-gcc release gcc version 4.3.5 (ADI-2010R1-RCA) isser-dist: release svn-912, build #2977 Thu Sep 19 15:30:29 CEST 2013, host gombos-ubuntu, user g Update Configuration Config ID: E4-Feeder_H ile date: 01-oct-2013 15:18:33 cod date: 01-oct-2013 15:18:33 ile name: E4-Feeder_H.epc, 2299302 bytes </pre>	

Fig.27. Update manager

The performances and the characteristics reported in this manual are not binding and can modified at any moment without notice.



Quartier du Pavé Neuf - 49 rue de l'université F-93191 NOISY LE GRAND TEL. : +33 1 48 15 09 09 - FAX. : +33 1 43 05 08 24 Email : info@microener.com - URL : http://www.microener.com