

GUIDA TECNICA INTERFACCIA DI CONFIGURAZIONE P-TERIMINAL

P-TERMINAL CONFIGURATION INTERFACE

FECHNICAL GUIDE

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1. Installation

Step	Note							
1	Launch the "P-Term Setup.exe" installation program and follow the instructions given below							
Step	Window	Note	Step	Window	Note			
2	U Stup - P-Term V V Welcome to the P-Term Setup Ward. The will real P-Term version 1.00 or your computer. It is will real P-Term version 1.00 or your comput	The first window opens Select [NEXT]	3	Sched P-Friem X Sched Destination Location Where should P-frem into the following folder. Sched Destination Lif you would like to solect a different fielder, did Browse. C: (Program Files (odd) (P-frem C: (Program Files (odd) (P-frem Browse. At least 3.5 MB of free did space is required. Cancel	Select the program installation folder Select [NEXT]			
4	Select Start Henu Folder Image: Comparis shortcub?	Select the position of the program shortcuts Select [NEXT]	5	Select Additional Tasks Image: Imag	Create an icon on the desktop Select [NEXT]			
6	Setup - P-Term Image: Comparison of the set set of the set of the set set of the set set of the set	Check the selections made Select [Install]	7	FTDI COM Drivers FTDI COM Drivers Clic Struct to speak writin 2, 33.00 FTDD's Vindows Drive Podage on South the resulter www.Noblec.com www.Noblec.com	Drivers Select [Extract]			
8	Device Driver Installation Witard Welcome to the Device Driver Installation Wizard! The statel helps you had the software driver that some computer devices need in order to work. To continue, click Neet. Circleto Avertio Anale	Driver installation begins Select [Next]	9	Device Driver Installation Wizard	Driver installation complete Select [Finish] P-Terminal installation begins			
10	Setup - P-Term C X Completing the P-Term Setup Setup has fredhed installing P-Tern on your computer. The Output has fredhed installing P-Tern on your computer. The Output has all Setup. Clamba has all Setup. Landh P-Term	P-Terminal installation complete Remove the "Launch P-Term" flag and Select [Finish]						

Step	Note							
11	Connect the USB2DxR device, or directly the DER2, to a free USB port through the USB cable.							
Step	Window	Note	Step	Window	Note			
13	Installatione guidata nuovo hardware	Connection found Select "Not yet" and Select [Next]	14	Installationer guldsta nurve hardware. Image: Second and	Select "Install the software automatically" and Select [Next]			
15	Installazione hardware I software che si sta instalando per l'hardware: USB Setal Conveter on ha superato i l'esting del programma Windows Logo che conserte di verticame la compatibilità con Windows XP, (Informaziona sul testing) L'Installazione del software potrebbe impedire il corretto funzionamento del sistema o renderio instabile. Microsoft consiglia di arrestare l'Installazione e di programma Windows Logo. Qortinue Arresta installazione	Select [Continue]	16	Installacione galdata nuovo hardware. Completamento dell'Installacione guidata nuovo hardware in corso. Latasone de orhune completa per Latasone de orhune comple	First part of installation complete Select [Finish]			
17	Image: Statistic Statis Statis Statistic Statistic Statistic Statistic Stat	Repeat the procedure Select "Not yet" and Select [Next]	18	Installatione guidata nuovo hardware.	Select "Install the software automatically" and Select [Next]			
19	Installazione hardware I software che si sta instalando per l'hardware: USB Senal Port USB Senal Port Información l'esting del programma Windows Logo che conserte di verticame la compatibilità con Windows XP, (Información sul testing) L'Installazione del software potrebbe impedire il corretto functionamento del sistema o renderio instabile. Microsoft consolta di arrestare l'Installazione e di contattare il fornitore dell'hardware per ottenere un prodotto software che abbia superato il testing del programma Windows Logo. <u>Qortinua</u> <u>Arresta Instalazione</u>	Select [Continue]	20	Installarione guidata nuovo hardware. Completamento dell'Installazione guidata nuovo hardware in corso. Latasone de offware completa per Latasone de offware completa per Latasone de offware completa per USB Serie Por Per chudere Instalazone pudata. soglere Fire.	Installation complete Hardware recognised Select [Finish]			

The USB2DxR device is now ready to operate, and installation can be verified.

Step	Window	Note	Step	Window	Note
21	Proprietà del sistema Importanto configurazione di sistema Aggornamenti automatio Connescone remota Aggornamenti automatio Marcharos Generale Nome computer Hordware Avanzate Osticono pendiculo proprietà allo pendicolo pereferache. Gestione pendiculo perspeta allo perspeta allo pendicolo perspeta colo pendiculo	Start Settings Control panel System Select "Hardware"	22	Construction Construction Image: Construction Image: Construction	Select "Device Manager" then "Ports (COM and LPT)" There must be a device present at "USB Serial port"

2. Description of the P-Term software

The P-Term program can be started directly from the respective icon on the desktop of Windows. When opened, the user interface appears as shown in Fig. 1.



Fig. 1

The COM port (emulated) indicating to which the USB2DxR communication interface was connected, is assigned automatically when connected to the USB port.

If there is only one USB2DxR communication interface, the COM port (emulated) to which it is connected is automatically defaulted. If several interfaces are connected, the device used to exchange data can be selected from the Com Port button.

Establish the connection clicking on "Connect" button.

Connection is confirmed when the *Connected* indicator changes from yellow to green.

If communication occurs without any errors, the **Com STAT** indicator changes from red to green.

IMPORTANT: Communication can only take place if all three indicators, **Connected**, **Com STAT** and **Com ERROR** are green.

The user interface of the P-Term software (rel. 1.0x), which appears as indicated in Fig. 1, can program and monitor from 1 to 16 slave units connected by USB. The available functions are briefly described in the following tables with the respective references to the relative figures.

The flow chart on section 3 gives an overview of all the software steps after the **Configuration** button is pressed.



Refer to DSR or DER regulators manuals for parameters nomenclature and functions.



This is an ONLY ONE-WAY software. If special setting are made on the AVR, this can be lost. After the setting has been changed using P-Term, there's no way to reset the default configuration without using DxR Terminal Software.



Fig. 2

3.1 Trimmers disabling



After **Configuration** button is pressed, the first step is about the potentiometers disabling.





If button NO is selected, the configuration will be aborted.





3.2 Alternator selection





The second step is about the modification of voltage and frequency.

This function can be used in case the AVR has to be moved from its default alternator to another one(or also if the alternator default voltage and frequency are changed) or in case of AVR purchased on his own or for example in case of replacement of an on-field AVR.



Fig. 7

If button **NO** is selected, the voltage and/or frequency modification will be aborted. If button **YES** is selected an alternators Data Base will open.

Select Alternator Mod	iel			X
Model	Voltage	Freq.	Version	
ECO43-1S	240/415	60	Standard	
ECO43-1S	254/440	60	Standard	=
ECO43-1S	277/480	60	Standard	-
EC043-1S	138/240	60	Standard	
ECO43-1S	127/220	60	Standard	
ECO43-1S	120/208	60	Standard	
ECO43-1S	220/380	60	Dedicated	
ECO43-1S	347/600	60	Dedicated	
EC043-1S	220/380	50	Standard	
EC043-1S	230/400	50	Standard	
ECO43-1S	240/415	50	Standard	
ECO43-2S	240/415	60	Standard	
EC043-2S	254/440	60	Standard	
EC043-2S	277/480	60	Standard	
EC043-2S	138/240	60	Standard	
EC043-2S	120/208	60	Standard	
EC043-2S	220/380	60	Dedicated	
ECO43-2S	347/600	60	Dedicated	
EC043-2S	220/380	50	Standard	-
			Apply Exit	
		-		

Fig. 8

If *Exit* button is selected, the Voltage and/or Frequency modification will be aborted and the software will continue with the next question.

After the alternator choice, if *Apply* button is selected the action will be confirmed and the following parameters will be updated:

- P[10] bit14: frequency setting
- P[11]: shift to left stability proportional gain
- P[12]: shift to left stability integral gain
- P[13]: Coefficient to set Ki and Kp separately
- P[19]: Vout reference if the VOLT trimmer is disabled
- P[20]: Stability value if the STAB trimmer is disabled
- P[22]: Excitation overcurrend threshold valud if the AMP trimmer is disabled

The value of parameters involved can be modified using *Edit Data Base* command in the main window. After press the button, this comand will ask to select and open the .csv file present in the intallation folder, which is the origin file of the databse library. In this way an editable Data Base version will open.

AI	ternato	r Data Base											x
		Model	Voltage	Freq.	Version	P[10].14	P[11]	P[12]	P[13]	P[19]	P[20]	%P[22]	•
	1	ECO43-1S	240/415	60	Standard	1	1	5	26624	19561	17852	100	
	2	ECO43-1S	254/440	60	Standard	1	1	5	26624	22701	17852	100	-
	3	ECO43-1S	277/480	60	Standard	1	1	5	26624	27726	17852	100	-
	4	ECO43-1S	138/240	60	Standard	1	1	5	26624	27726	17852	100	
	5	ECO43-1S	127/220	60	Standard	1	1	5	26624	22701	17852	100	
	6	ECO43-1S	120/208	60	Standard	1	1	5	26624	19686	17852	100	
	7	ECO43-1S	220/380	60	Dedicated	1	1	5	26624	15164	17852	100	
	8	ECO43-1S	347/600	60	Dedicated	1	1	5	26624	5510	17852	100	
	9	ECO43-1S	220/380	50	Standard	0	1	5	26624	15164	24074	100	
	10	ECO43-1S	230/400	50	Standard	0	1	5	26624	17676	24074	100	
	11	ECO43-1S	240/415	50	Standard	0	1	5	26624	19561	24074	100	
	12	ECO43-2S	240/415	60	Standard	1	1	5	26624	19561	17852	100	
	13	ECO43-2S	254/440	60	Standard	1	1	5	26624	22701	17852	100	
	14	ECO43-2S	277/480	60	Standard	1	1	5	26624	27726	17852	100	
	15	ECO43-2S	138/240	60	Standard	1	1	5	26624	27726	17852	100	
	16	ECO43-2S	120/208	60	Standard	1	1	5	26624	19686	17852	100	
	17	ECO43-2S	220/380	60	Dedicated	1	1	5	26624	15164	17852	100	
	18	EC043-2S	347/600	60	Dedicated	1	1	5	26624	5510	17852	100	-
	1				Save Library		E	Exit					



When the manual editing is finished press the **Save Library** button and insert the password to switch the User Mode from *Normal* to *Expert* and save the update.



Only after this step a new library file will be generated.

If the .csv file is changed directly in the installation folder, this won't modify the Data Base because the changes wasn't made throught the software and no library file was generated.

The default Password is "meccalte".

This can be changed using the *Modify Password* button in the main window.

Modify Password	-	X
Old Password New Password		
	ОК	

Fig. 11



Fig. 12

The third step is about the Voltage/frequency slope (parameter P[23]).



Fig. 13

If *Custom* button is pressed a slope more steep than *Standard* one will be setted.

3.4 LAM Setting





The fourth question is about LAM activation or Deactivation.

If Activation button is selected, the same operation of DxR Terminal LAMS PRESET command will be followed.

If *Deactivation* button is selected, the same operation of DxR Terminal UFLO_LAMS RESET command will be followed less the parameter P[23], already changed in the previous step.

Please see DxR Terminal and DSR/DER user manuals for LAMS PRESET and UFLO_LAMS RESET command and involved parameters descriptions.

3.5 SOFT START Setting



Fig. 15

The fifth question is about SOFT START Activation or Deactivation.

If *Activation* button is selected, the same operations of DxR Terminal SOFT START PRESET command will be followed.

If *Deactivation* button is selected, the same operations of SOFT START RESET command will be followed.

Please see DxR Terminal and DSR/DER user manual for SOFT START PRESET and SOFT START RESET command and involved parameters description.

4. System requirements

PC with O.S. Microsoft Windows XP[®], Windows Vista[®], Windows 7[®] or Windows 8[®] and .NET Framework from version 4.1 and up, development tools.

Screen with minimum resolution of 1024 x 768 pixels

TECHNICAL REFERENCE GUIDES					
Title	Link				
Communication interface USB2DxR	http://www.meccalte.com/send_file.php? fileid=Usb2DxR.pdf				
DSR Digital Regulator	http://www.meccalte.com/send_file.php? fileid=manual_dsr_en.pdf				
DER1 Digital Regulator	http://www.meccalte.com/send_file.php? fileid=Manuale_DER1_EN_rev06.pdf				
DER2 Digital Regulator	http://www.meccalte.com/send_file.php? fileid=Manual_DER2_EN_rev01.pdf				

REVISION HISTORY						
Revision	Date	Description				
Rev. 00	06/2017	Initial Release				



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