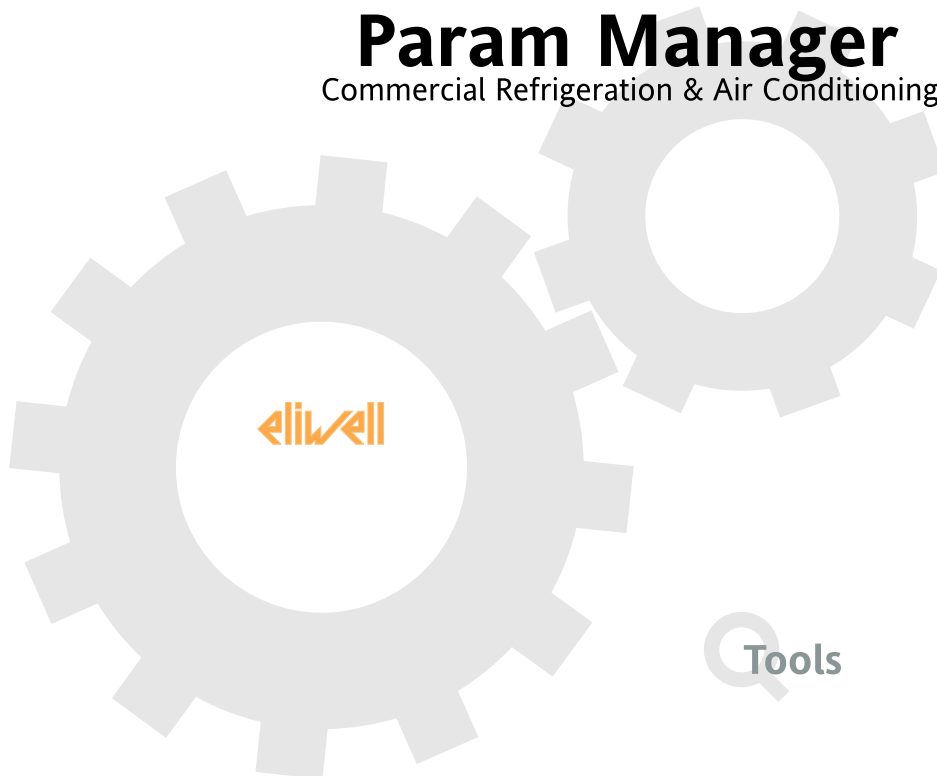




# Param Manager 5.6

## Parameter Configuration Software

**Param Manager**  
Commercial Refrigeration & Air Conditioning



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## 1 GENERAL NOTES

### 1.1 Introduction

Param Manager 4.0 or later manages Eliwell devices with **MODBUS** communication protocol.

To be able to communicate with a **MODBUS** device, you need to install a **Smart Adapter** module (MODBUS converter for Televis network) between the PC+PCInterface and the **MODBUS** device.

Param Manager 4.0 or later is compatible with earlier versions and can therefore be used to establish communications with:

- Eliwell devices with proprietary communication protocol (like those up to version 3.0)
- Eliwell devices with **MODBUS** protocol

### 1.2 System requirements

- *Operating system:* Windows 2000, Windows XP, Windows 7 Premium, Windows 7 Professional, Windows 7 Ultimate (32bit version)
- *Processor:* Pentium 133 or more powerful
- *RAM:* 16 MB
- *Screen resolution:* VGA (minimum), 800×600 256 colors (recommended)
- *Free space on hard disc:*  
space requirements for the hard disc are the following:  
Program: 10Mb  
Online program Help: 5Mb for each language installed  
Device model: 100k per model  
Online Help for model: 3Mb for each language
- The *typical installation* (1 language, 4 models) requires approximately 30 MB of free space.

### 1.3 Installing Param manager

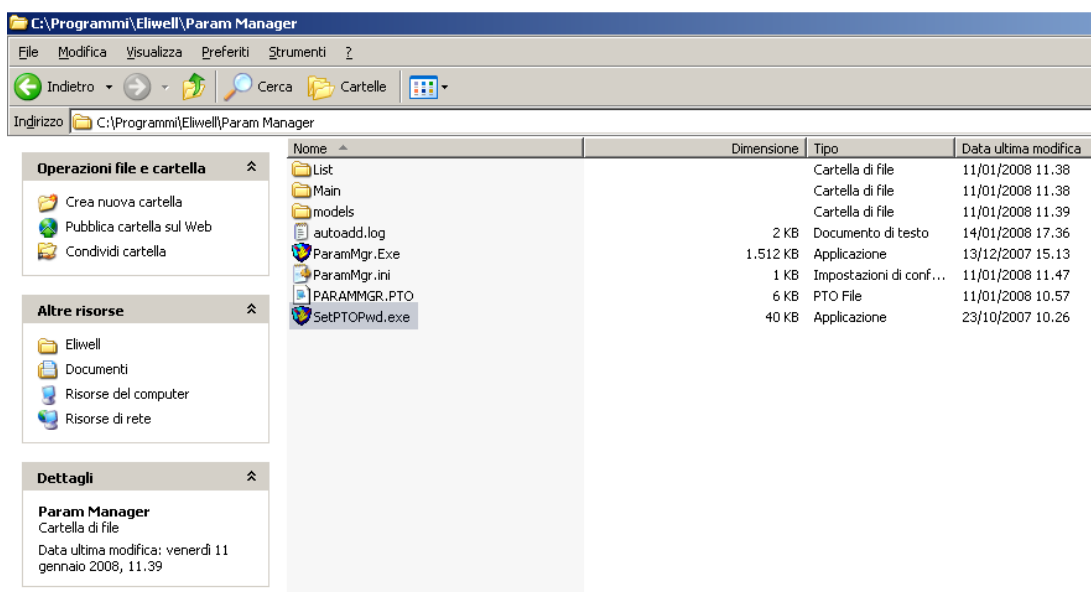
Before starting the setup procedure, close all the open programs under Windows (Office applications, Internet browsers, etc.) to prevent them from exclusively accessing the shared system libraries that are used during setup.

To install the product:

1. Start the setup program (**setup.exe**) provided on the CD-ROM supplied with the product.
2. Select the interface language.
3. Follow the instructions displayed in the dialogs to:
  - Select the folder in which the program will be installed.
  - Select the language/s in which the program will be displayed.
  - Select the models (product families) and related language. The program can work only if a device model has been installed.

### 1.3.1 Password setting

To set the password



- Click on the executable file (SetPTOPwd.Exe) in the folder that appears at the end of the installation:
- The [password setting](#) page will appear



Enter ('Please enter password to set') and confirm ('Confirm password') the chosen password.

Save the password ('Set password...')

If the two passwords coincide the message will be successful; if not there will be a verification message:

For example, in the second case, the two passwords do not coincide (the 'P' of Password must be a capital letter, as the password is case sensitive).

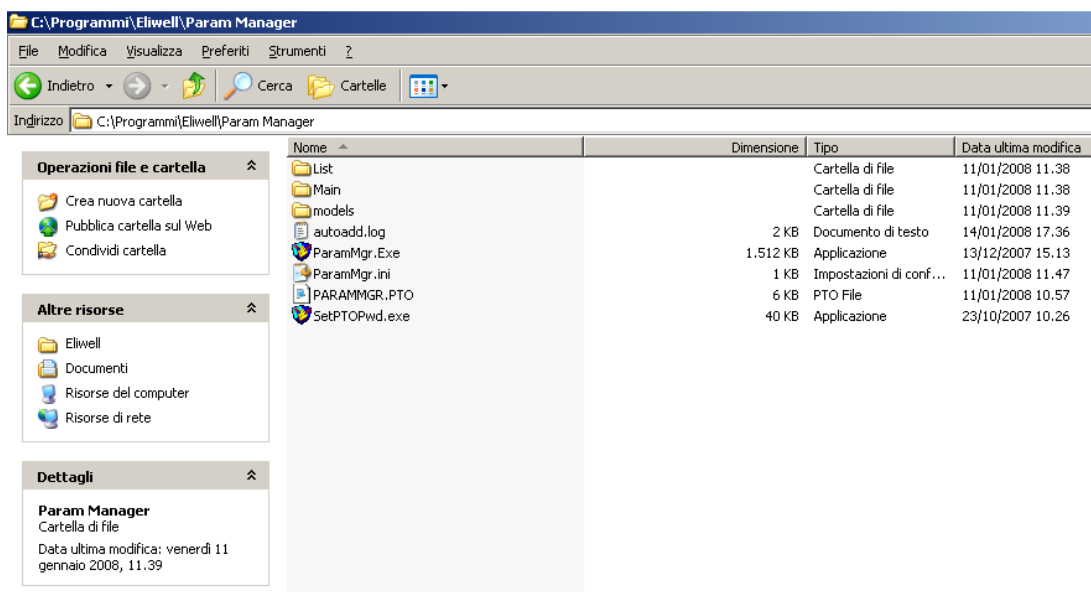
password	<a href="#">Password setting</a>	Message
right		
wrong		
None		

- Repeat the operation to change the password.
- To allow access without password, repeat the operation and leave the fields blank.

Note: at the end of the procedure you are advised either to save the file SetPTOPwd.Exe in a protected zone of the PC or cancel it to avoid unwanted changes to the password by external users with access to the Param Manager directory.

### 1.3.2 Launching Param Manager

To launch the program:

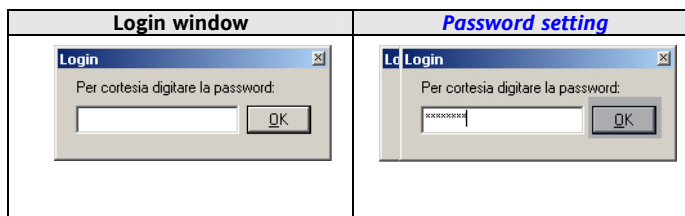


Click on the executable file (ParamMgr.Exe) from the folder that appears at the end of the installation  
Or from Start --> (All) Programs --> Eliwell --> Tools --> Param Manager



### 1.3.3 Access with password

If set, a prompt will be given to enter the password:



Press the OK key.

- If the password is wrong, the program will go back to the login window.
- If the password is 'blank', i.e. no entry is made and OK is pressed, then the program will be accessed with reduced **functions**. In reduced mode, it will NOT be possible to:
  - edit maps
  - write / edit .dat files
  - write on the partial maps device
  - read maps from the device

The reduced mode will be signalled in the program with the message 'LOCKED' at the top right



- If the password is correct the program will start up:

## **1.4 Uninstalling Param manager**

To uninstall the program:

- Select "Start\Settings\Control Panel"
- Start "Add/Remove Programs".
- Select Param Manager from the list of installed programs.
- Click "Add/Remove".

## 2 CONNECTION TO THE DEVICE

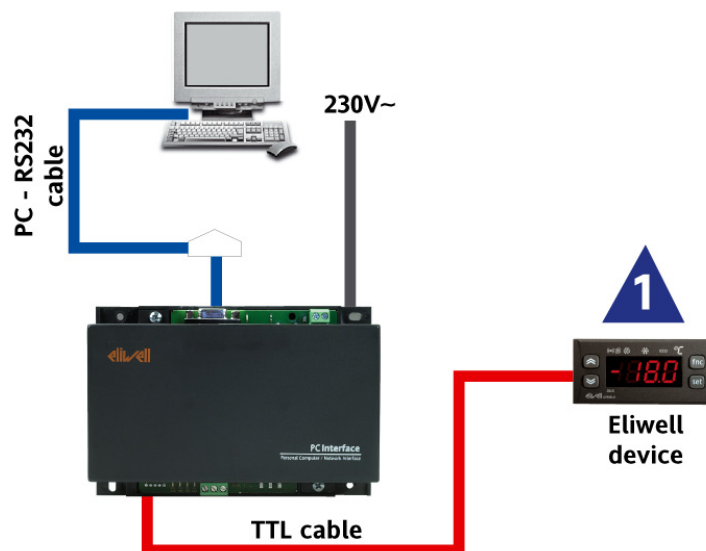
### 2.1 Connecting the PCInterface to the device

To allow the PC and a device to communicate, it is necessary to connect the PC, PCInterface 2150 (see [Appendix-PCInterface](#)) and the device using one of the configurations described below.

#### 2.1.1 Connection diagram A

Example of connection between PCInterface 2150 and a device, based on the TTL port of the device.

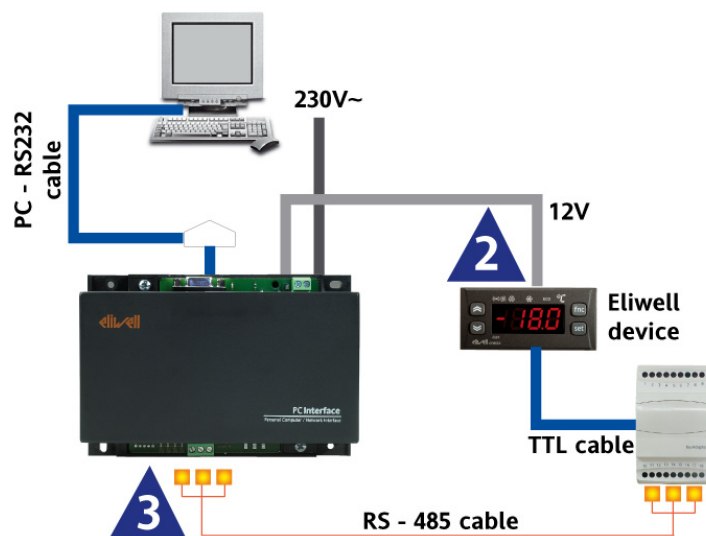
PCI2150/Device  
connection -  
Connection  
diagram A



#### 2.1.2 Connection diagram B

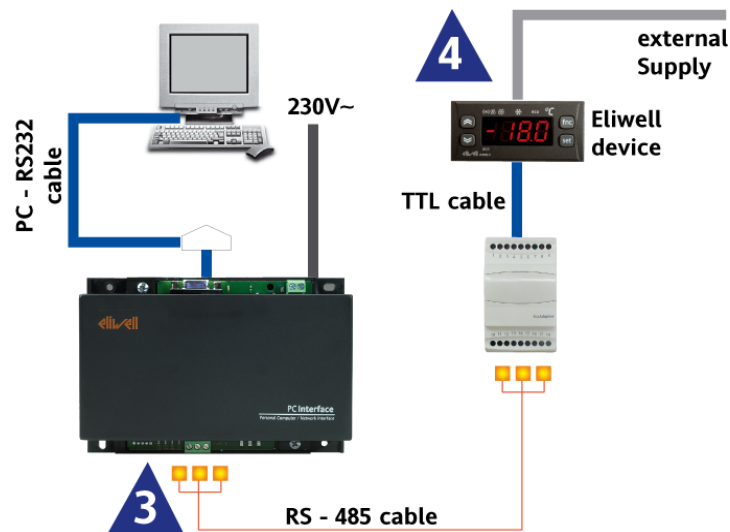
Example of connection between PCInterface 2150 and a device, based on the RS485 port of the device. The 12V power is supplied by PCInterface2150.

PCI2150/Device  
connection -  
Connection  
diagram B



### 2.1.3 Connection diagram C

Example of connection between PCInterface 2150 and a device, based on the RS485 port of the device. The power is supplied to the device by an external source. Always check the electrical rating of the device on its nameplate.



#### LEGEND

**NOTE 1 : WARNING: DO NOT power the device.**

**NOTE 2 :** power supplied by output +12V Aux Out of PCINTERFACE 2150.

**NOTE 3 :** check the polarity of the connections of the RS485 line (+, - and GND).

**NOTE 4 :** device powered by an external source.  
Always check the electrical rating of the device on its nameplate.

#### PLEASE NOTE:

- 1) ParamManager can be installed and managed even if it is not connected to PCInterface2150.
- 2) The connections between the PC and PCInterface2150 and between PCInterface 2150 and the device must be performed when the devices are disconnected from the power supply and in accordance with the applicable safety standards.
- 3) The connection of the CopyCard to the PC and of the device to the serial communication line is not required during the installation and management of parameters maps.

**The PC must be connected to the module and the module to the device when the devices are disconnected from the power supply and in accordance with applicable safety standards. Electrostatic shocks must also be avoided especially on the metal surfaces of each unit.**

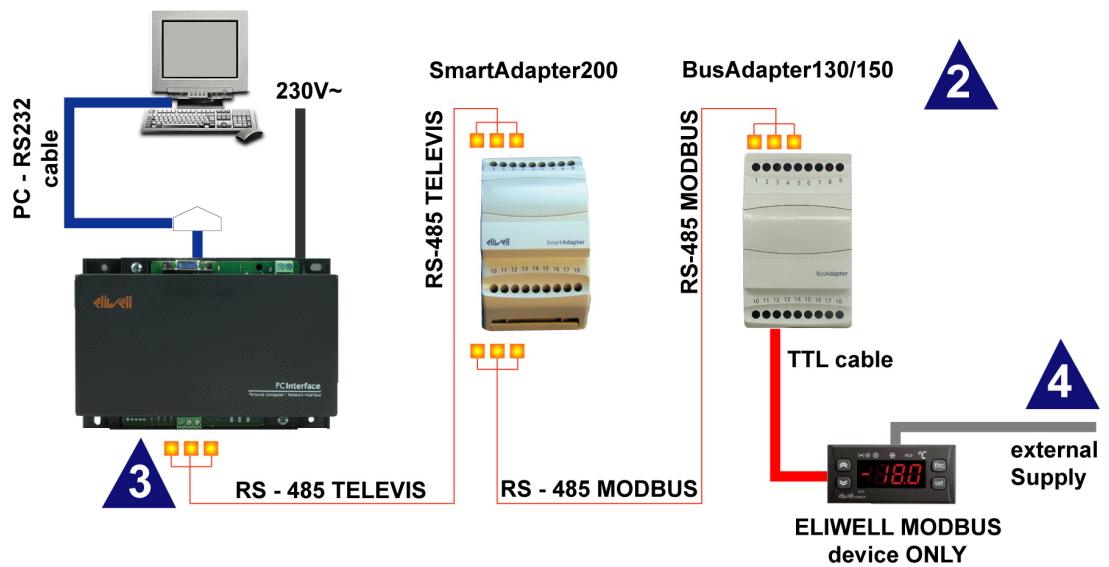
**Special measures must therefore be taken to ensure than electrostatic currents are discharged to earth.**



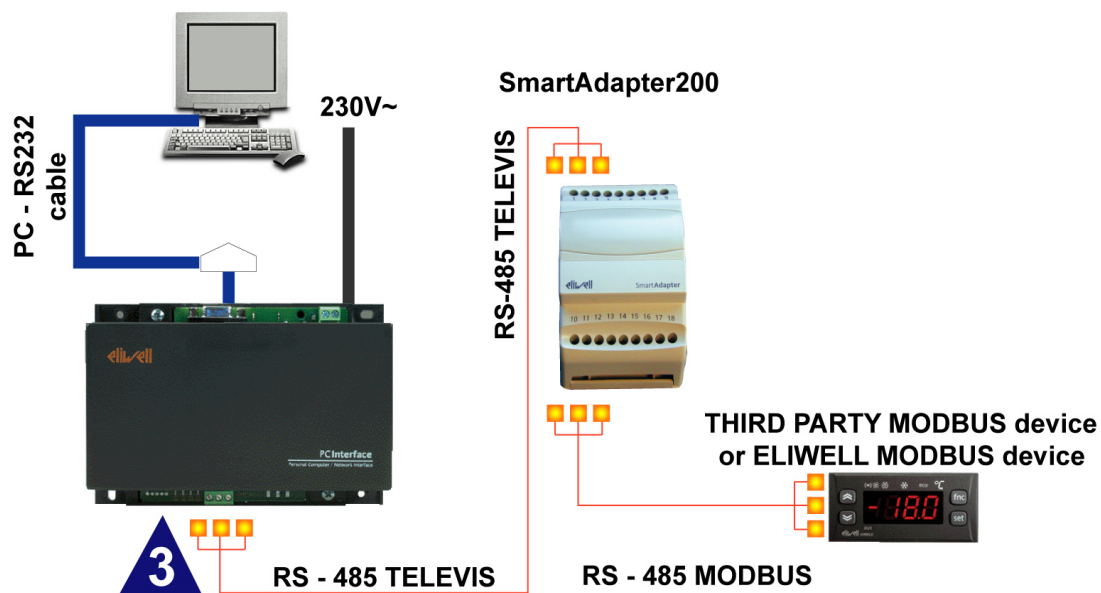
## 2.2 Connecting the PCInterface-SmartAdapter to a MODBUS device

To establish a communication between the PC and the MODBUS device, it is necessary to connect the Personal Computer, PCInterface 2150, SmartAdapter200, BusAdapter130/150 (see Appendix) and the device, as shown below.

### 2.2.1 Connection to an Eliwell Modbus device



### 2.2.2 Connection to a Third party device / Eliwell Modbus device



#### LEGEND

**NOTE 2 :** power supplied by output +12V Aux Out of PCINTERFACE 2150.

**NOTE 3 :** check the polarity of the connections of the RS485 line (+, - and GND).

**NOTE 4 :** device powered by an external source.  
Always check the electrical rating of the device on its nameplate.

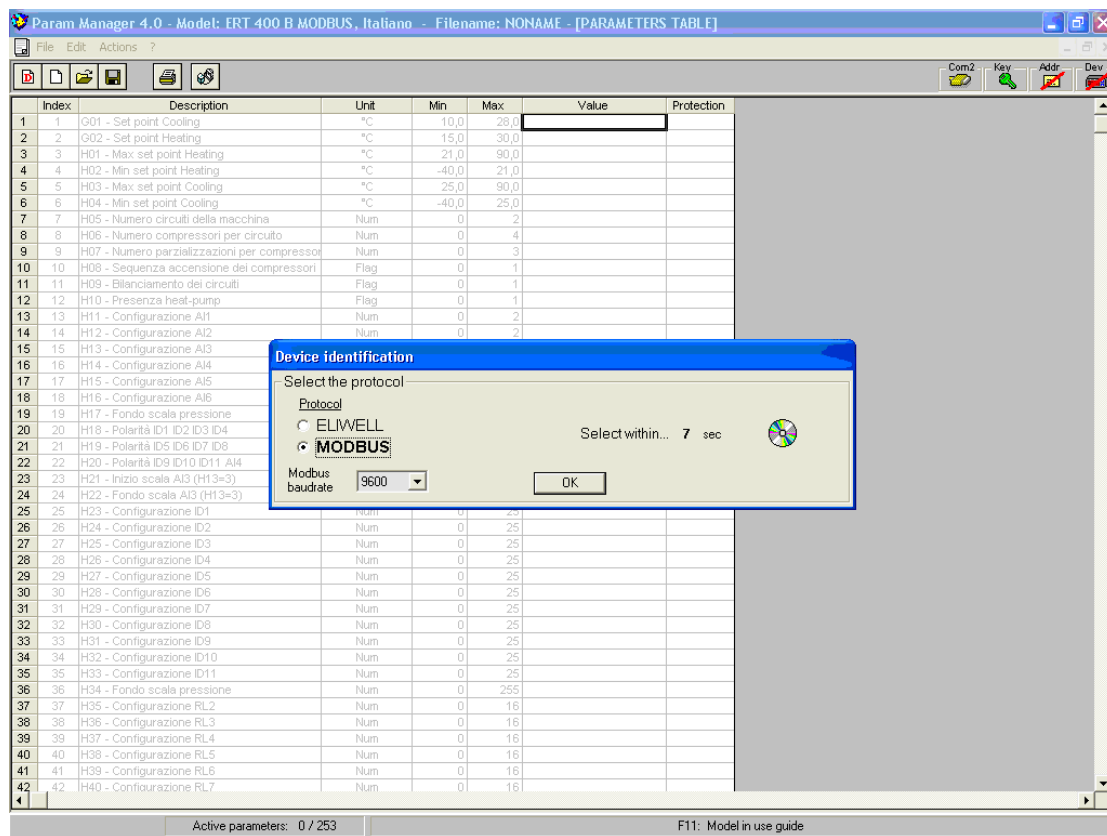
## 3 USE OF PARAM MANAGER 5.2 (OR HIGHER)

### 3.1 Selecting the protocol

The user must specify, using the “Device identification” dialog shown below, if the connected device uses a Televis or Modbus protocol.

If the MODBUS protocol is configured, the user must also select (using the “Device identification” dialog) the baud rate for the serial communications with the device. If the Televis protocol is configured, the baud rate will be automatically selected by the program.

**NOTE:** the protocol and communication baud rate selection dialog displays for a maximum of 10 seconds. If the user fails to specify the required settings within this interval of time, the program starts the search using the settings displayed on the panel. These settings are also saved so that the program is able to restore them when the next search is launched.



### 3.2 Automatic detection of the CopyCard and device

On start-up the program verifies that the *interface module* is present and that a device is connected. If both are present and working correctly, the program also automatically detects the type and model of controller, provided that the correct drivers are present and installed.

#### Auto-detect

The icons in the upper right show the result of the *auto-detect* operation related to the CopyCard and device. If the operation fails, these icons display a red bar (see figure).



Operators can process parameter maps, export them and save them even if the connection with the interface (PC Interface) and device is inactive.

#### Main screen of Param manager

Param Manager 3.0 - Model: ENERGY XT V1.0, Italiano - Filename: NONAME

File Edit Actions 2

Com Key Addr Dev

Index	Description	Unit	Min	Max	Value	Protection
1	Cm33 - Password Lettura	String	0	10		
2	Cm34 - Password Lettura/Scrittura	String	0	10		
3	Cm35 - Password Amministratore	String	0	10		
4	Cg04 - Lingua	Num	0	1		
5	Cg05 - Abilitazione RTC	Flag	0	1		
6	Cg06 - Abil. On Off remoto	Flag	0	1		
7	Cg07 - Abil. Inver. Remota	Flag	0	1		
8	Cg08 - Abilitazione fasce orarie	Flag	0	1		
9	Cg08 - Tipologia fasce orarie	Num	0	2		
10	Cg09 - Timeout menu'	Sec	10	1000		
11	Cg10 - Modo Manuale	Flag	0	1		
12	Cg11 - Password	String	0	5		
13	Cg14 - Stringa utente 1	String	0	20		
14	Cg15 - Stringa utente 2	String	0	20		
15	Cg19 - Tempo accelerazione Stella Triangolo	Sec	0,1	60,0		
16	Cg20 - Tempo transizione Stella Triangolo	Num	50	250		
17	Bc03 - Unità Misura Base (B)	Num	0	1		
18	Bc07 - (B) Calibrazione Sonda AI1	Num	-10,0	10,0		
19	Bc08 - (B) Calibrazione Sonda AI2	Num	-10,0	10,0		
20	Bc09 - (B) Calibrazione Sonda AI3	Num	-10,0	10,0		
21	Bc10 - (B) Calibrazione Sonda AI4	Num	-10,0	10,0		
22	Bc11 - (B) Calibrazione Sonda AI5	Num	-10,0	10,0		
23	Bc12 - (B) Calibrazione Sonda AI6	Num	-10,0	10,0		
24	Bc13 - (B) Calibrazione Sonda AI7	Num	-10,0	10,0		
25	Bc14 - (B) Calibrazione Sonda AI8	Num	-10,0	10,0		
26	Bc15 - (B) Valore f.s. 4 mA Sonda AI5	Bar	-1,0	1,0		
27	Bc16 - (B) Valore f.s. 20 mA Sonda AI5	Bar	1,0	100,0		
28	Bc17 - (B) Valore f.s. 4 mA Sonda AI6	Bar	-1,0	1,0		
29	Bc18 - (B) Valore f.s. 20 mA Sonda AI6	Bar	1,0	100,0		
30	Bc19 - (B) Valore f.s. 4 mA Sonda AI7	Bar	-1,0	1,0		
31	Bc20 - (B) Valore f.s. 20 mA Sonda AI7	Bar	1,0	100,0		
32	Bc21 - (B) Valore f.s. 4 mA Sonda AI8	Bar	-1,0	1,0		
33	Bc22 - (B) Valore f.s. 20 mA Sonda AI8	Bar	1,0	100,0		

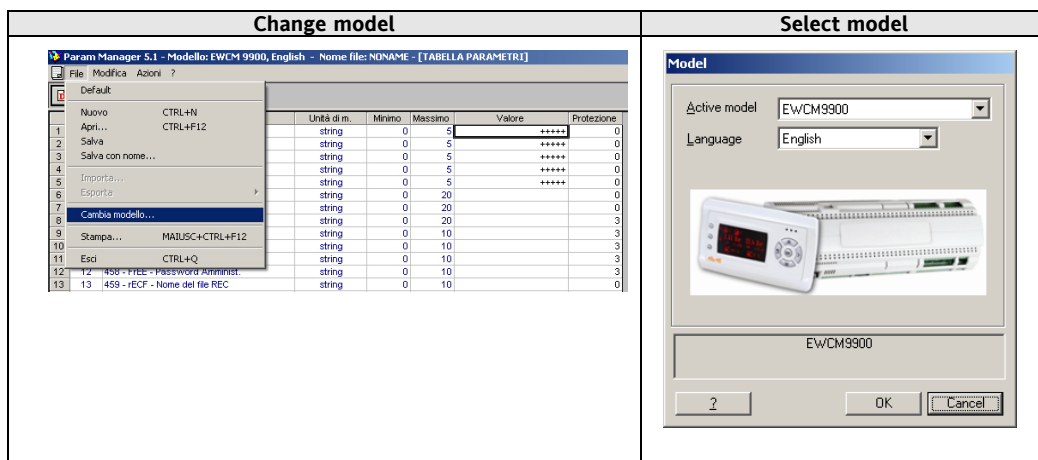
Active parameters: 0 / 649 F11: Model in use guide

### 3.2.1 Key and EWCM 13/18DIN device automatic recognition procedure

Once launched, the program will check for the presence of an *interface module*, and then for the presence of a connected EWCM device. If these are both present and operational, the recognition of the controller type and model will be automatic, provided the correct drivers are present and installed in the personal computer.

To check and/or change the EWCM model from the drop-down menu [File-Change model] select the desired model (EWCM9900 in the example)

Presence and  
change of model



When starting up, independently of whether or not an active connection is present, the *Param Manager* main page will

Default map

The screenshot shows the main page of the Param Manager software. It displays a table with columns: 'Indice', 'Descrizione', 'Unità d.m.', 'Minimo', 'Massimo', 'Valore', and 'Protezione'. The table lists various parameters for the EWCM9900 device, including passwords, user names, and various control signals. The status bar at the bottom indicates 'Parametri attivi: 897 / 897' and 'F11: Guida del modello'.

Indice	Descrizione	Unità d.m.	Minimo	Massimo	Valore	Protezione
1	834 - PSW1 - Password 1	string	0	5	*****	0
2	835 - PSW2 - Password 2	string	0	5	*****	0
3	836 - PSW3 - Password 3	string	0	5	*****	0
4	837 - PSW4 - Password 4	string	0	5	*****	0
5	838 - PSW5 - Password 5	string	0	5	*****	0
6	452 - LGU1 - Stringa utente 1	string	0	20	*****	0
7	453 - LGU2 - Stringa utente 2	string	0	20	*****	0
8	454 - FEE - CRC	string	0	20	*****	0
9	455 - FEE - Elivell Password	string	0	10	*****	3
10	456 - FEE - Password Lettura	string	0	10	*****	3
11	457 - FEE - Password Lettura	string	0	10	*****	3
12	458 - FEE - Password Amministr.	string	0	10	*****	3
13	459 - REC - Nome del file REC	string	0	10	*****	0
14	460 - REC - Nome del file REC	string	0	10	*****	0
15	461 - DAT - Nome del file DAT	string	0	10	*****	0
16	462 - DAT - Nome del file DAT	string	0	10	*****	0
17	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S01	num	-32768	32767	-32768	3
18	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S01	num	-32768	32767	-32768	3
19	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S01	num	-32768	32767	-32768	3
20	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S01	num	-32768	32767	-32768	3
21	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S02	num	-32768	32767	-32768	3
22	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S02	num	-32768	32767	-32768	3
23	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S02	num	-32768	32767	-32768	3
24	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S02	num	-32768	32767	-32768	3
25	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S02	num	-32768	32767	-32768	3
26	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S02	num	-32768	32767	-32768	3
27	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S03	num	-32768	32767	-32768	3
28	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S03	num	-32768	32767	-32768	3
29	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
30	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
31	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
32	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
33	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
34	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
35	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
36	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
37	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
38	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
39	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
40	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
41	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
42	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
43	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
44	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
45	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
46	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
47	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
48	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
49	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
50	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
51	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
52	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
53	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
54	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
55	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
56	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
57	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3
58	xxxx - gAbp_MNC_Sgl - Quad. NTC 103AT S04	num	-32768	32767	-32768	3

display the list of parameters corresponding to the chosen model *in table form*.

### 3.3 Parameters map in tabular format

On start-up, the *main screen of Param Manager* always displays a list of the parameters for the select model in a *table*, regardless of whether the connection with the interface or device is active or inactive. The list displays the name, type and minimum and maximum values of all parameters. The prompt on the *Status Bar* shows which of the displayed parameters are active. On start-up no parameters are active.

At this point operators may:

- Manually assign a value to one or more parameters. It is useful to remember that the entered parameter will be displayed in red if they do not fall within the range of acceptable parameters. If the operator tries to force an incorrect parameter, the system replaces it with the default value to prevent the occurrence of dangerous situations.
- Reset the **default** parameters map [Menu-File-Default] or click the following button :
- Load an existing map file [Menu-File-Open] or click the following button:



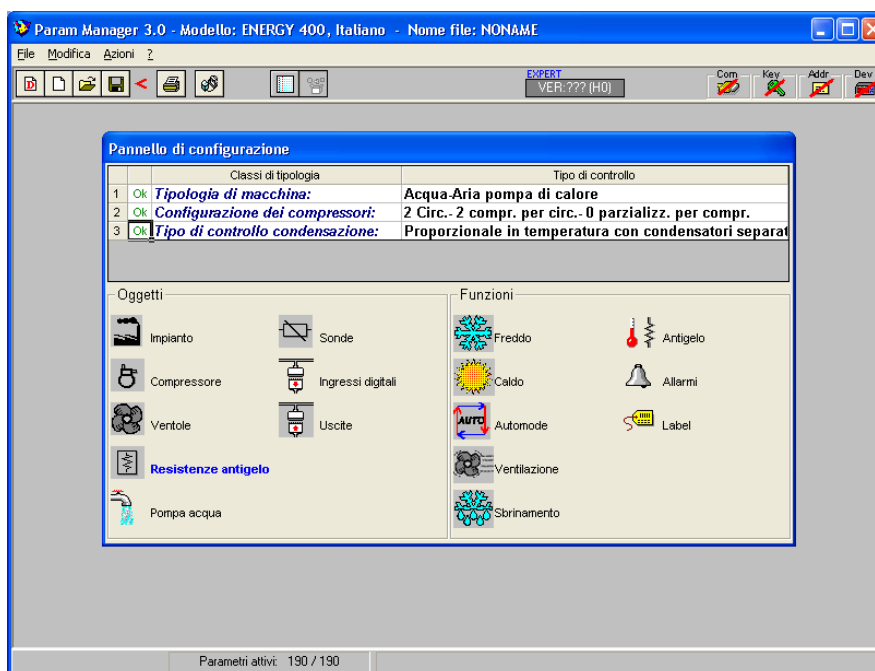
### 3.4 Object Display mode: simplified management of the parameters map (available on some models only)

When the map of parameters enabled by the user is completed, i.e. when all the parameters described in the model are active, it is possible to select the *object Display mode* that offers an immediate and simplified view of the parameters. To switch between the available display modes, select menu:



Menu-Actions-Object Display] or [Menu-Actions-Table Display] or select on the Toolbar:

Object Display  
mode

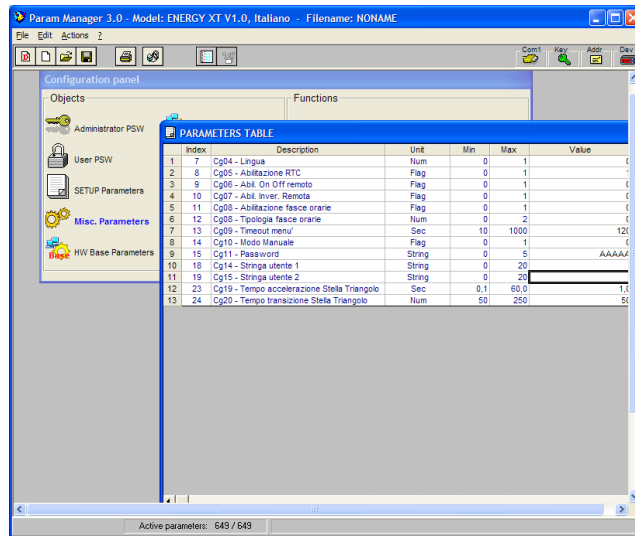


**Objects** *Objects* include groups of parameters related to specific physical components of the system. The available set of *objects* (i.e. their number, name, etc.) varies according to the selected model.

**Functions** *Functions* include groups of parameters related to specific algorithms of the system. Even in this case, the available set of *functions* (i.e. their number, name, age, etc.) varies according to the selected model.

## Parameters Panel

It is sufficient to *double click* the desired object or function to access the “*Parameters Panel*” that displays the list of all the parameters referred to the selected set in a graph or table. From this point onwards, it will be possible to work only with specific group of parameters.



### 3.5 Saving and loading the parameters map on the hard disc

New or modified parameters maps can be saved by the user on the hard disc. To perform this operation, it is sufficient to select the lines of the parameters that have to be saved and click [Menu-File-Save] or [Menu-File-Save As], or click the following button



The file with the saved parameters has a “.DAT” extension.

Select [Menu-File-Open] or click button:

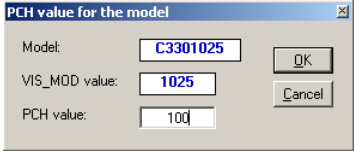
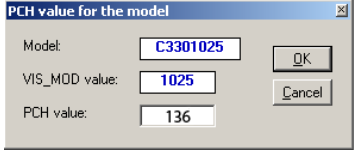
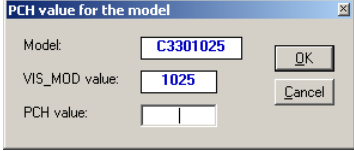

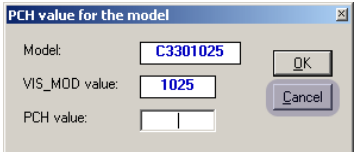
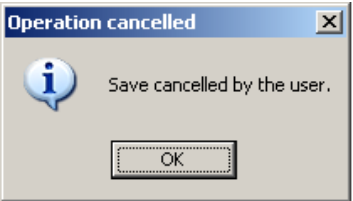


To load an existing parameters map.

To create a new map, it is sufficient to select [Menu-File-New] or click the following button



The file containing the stored data will have the extension “.DAT”.  
To save the .DAT file the program will display this window:

		PCH value	Message
NOTE 1 If you own the firmware release 330*	Enter the value 100 <b>NOTE</b> If a value other than 100 is entered the .dat file will be saved anyway but the USB key will not be recognised by the EWCM 13/18DIN.		No message
NOTE 2 If you own the firmware release 398**	Enter the value 100 <b>NOTE</b> If a value other than 100 is entered the .dat file will be saved anyway but the USB key will not be recognised by the EWCM 13/18DIN.		No message
	If no value is entered the corresponding message appears		
	If cancelled, no .dat files will be saved		

\*Note: if you are not sure on your firmware release please contact Eliwell Customer Support

\*Note: the firmware release can be checked on the EWCM display in the Service Menu Service (requires Administrator password, see EWCM user manual)

<b>SERVICE</b>	<b>03/03</b>
Service Password	
FW 398.01	22/04/09

Note: only available from versions 398.01 onward.



### 3.6 Printing parameters maps

To print the parameters maps, select [*Menu-File-Print*] or click the following button:



Before sending the data to the printer, it is necessary to define a few parameters that are useful to enhance the display and storage of data. These parameters are:

- Name of the map author
- Map title
- Date and time of printing
- Name of the file associated to the map
- Name of the template to which the map is linked
- Logo that has to be inserted in the left corner of the printout
- Notes associated to the map file.

It is also possible to select whether to print only the selected items or the whole map (only for the parameters for which a value and/or protection code has been entered).

Printout notes can also be entered by selecting [*Actions/Enter report notes*].

If the selected device model enables to display the parameters in the form of *objects* and/or *functions*, it is possible to start the print from the *Object display mode*, after making sure that one or more *objects* and/or *functions* have been selected. This enables to print groups of parameters related to a single object or function.

### 3.7 Connecting to a device

Select [Menu-Actions-Connect with Device] or click the following button:



The program displays screen "Connect to device" that shows a partial or complete list of parameters, depending on the previous operation selected. To display the map at any time, select "All". Option "Selected" enables to decide whether to read or write the whole list of parameters or to restrict these operations to the selected parameters, regardless of the actual parameters displayed.

**Serial link with device**

Index	Description	Unit	Min	Max	Value	Protection	Device value	Device protection
7	Cg04 - Lingua	Num	0	1	0	0		
8	Cg05 - Abilitazione RTC	Flag	0	1	1	0		
9	Cg06 - Abil. On Off remoto	Flag	0	1	0	0		
10	Cg07 - Abil. Inver. Remota	Flag	0	1	0	0		
11	Cg08 - Abilitazione fasce orarie	Flag	0	1	0	0		
12	Cg08 - Tipologia fasce orarie	Num	0	2	0	0		
13	Cg09 - Timeout menu	Sec	10	1000	120	0		
14	Cg10 - Modo Manuale	Flag	0	1	0	0		
15	Cg11 - Password	String	0	5	AAAAA	0		
18	Cg14 - Stringa utente 1	String	0	20		0		
19	Cg15 - Stringa utente 2	String	0	20		0		

Device manipulation options:

☐ Listed ☒ Activated ☐ All

☐ memory ☐ file

Load from device Write to device

5 Parameters ☒ Verify ☒ Selected

Serial port: Com1 Serial port1

Link: Parameter 0

Internal E2 status: Activate E2

Stop

Apply button options:

☒ to memory ☐ to file

Apply Print... Close

Connection with  
EWCM 13/18DIN  
device

**Serial link with device**

Index	Description	Unit	Min	Max	Value	Protection	Device value	Device protection
1	634 - PSW1 - Password 1	string	0	5	XXXXX	0		
2	635 - PSW2 - Password 2	string	0	5	XXXXX	0		
3	636 - PSW3 - Password 3	string	0	5	XXXXX	0		
4	637 - PSW4 - Password 4	string	0	5	XXXXX	0		
5	638 - PSW5 - Password 5	string	0	5	XXXXX	0		
6	452 - USId1 - User String 1	string	0	20		0		
7	453 - USId2 - User String 2	string	0	20		0		
13	459 - rECF - REC file name	string	0	10		0		
14	460 - HISF - HIS file name	string	0	10		0		
15	461 - dAtF - DAT file name	string	0	10		0		
16	462 - gLoF - GLO file name	string	0	10		0		

Device manipulation options:

☐ Listed ☐ Activated ☒ All

☒ memory ☐ file

Load from device Write to device

6 Parameters ☒ Verify ☒ Selected

Serial port: Com1 Serial port1

Link: Parameter 0

Internal E2 status: Activate E2

Stop

Special functions: Cfg Lock

Apply button options:

☒ to memory ☐ to file

Apply Print... Close

The last column of the parameters list (or the last 2 if a protection code is available) displays the parameters read by the device, while the previous column (or the 2 previous columns if a protection code is available) displays the content of the memory (map in memory) or a file (with all or part of the parameters).

The displayed window enables to link the device to the parameters described in the model. At this point it will be possible to physically read and write one or more parameters from/to the device.

The last column of the parameters list (or the last 2 if a protection code is available) displays the parameters read by the device, while the previous column (or the 2 previous columns if a protection code is available) displays the content of the memory (map in memory) or a file (with all or part of the parameters).

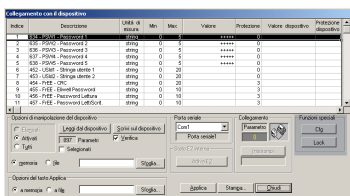

### 3.7.1 Reading one or more parameters

To read one or more parameters, which usually requires the entry of a password, it is sufficient to select the lines of the parameters that have to be read and click "Load from Device". The program will automatically connect to the device and read the parameters. To insert these values in the active map, click "Apply". The read data will be transferred to the stored map. To read the whole device memory, it is sufficient to select option "All" instead of "Activated".




### 3.7.2 Writing one or more parameters

To write one or more parameters in the memory of the device, which usually requires the entry of a password, it is sufficient to select the value of the desired parameters in the main screen and click the corresponding lines. Then, click the connection button and "Write to device". It is also possible to verify the data in order to be absolutely sure that all data has been written correctly.

#### 3.7.2.1 Special functions of release 5.2 (or higher) of EWCM 13/18DIN models

	Device connection page	Special <i>functions</i> section
Version 5.2 (or higher) has a 'Special <i>Functions</i> section' Models EWCM 13 and 18 DIN only		

Special Functions Table

			Error Messages
CFG		This key takes the EWCM to Configuration Mode, i.e. it enables the editing of the Quick Start Parameters (See EWCM manual)	
Lock		This key enables the <i>Lock mode</i> to allow accuracy when changing parameters with different measurement units	No message

### 3.7.3 CFG mode

As described in the table the EWCM 13/18DIN must be in Configuration mode to enable the editing of the Quick Start parameters, i.e. the QUICK START page, viewable via the EWCM keyboard, must be as in the example (Enable = Yes)

<b>QUICK START</b>		<b>01/01</b>
Enable	Yes	
Parameters		

For the list of Quick Start parameters, refer to the EWCM 13/18DIN manual  
If the parameters are not edited correctly, the error message shown in the table will appear

### 3.7.4 Lock Mode

Some of the EWCM 13 / 18 DIN parameters are doubled/quadrupled according to the measurement unit shown on the display.

For example, the parameter for the 131 – LSE Compressors minimum setpoint folder is quadrupled as:

- 131 – LSE minimum setpoint °C
- 131 – LSE minimum setpoint °F
- 131 – LSE minimum setpoint bar
- 131 – LSE minimum setpoint PSI

In the Param Manager parameters table the parameter is repeated 4 times on 4 separate lines.

If you edit and select one (or more) lines or just edit one or more measurement units of the same parameter and you want to update the parameter map, the following occurs:

The screenshot shows the 'Serial link with device' window. It contains a table with the following data:

Index	Description	Unit	Min	Max	Value	Protection	Device value	Device protection
529	131 - LSE - Minimum setpoint	°C	-100,0	600,0	32,0	2	-100,0	2
530	132 - HSE - Maximum setpoint	°C	-100,0	600,0	0,0	2	0,0	2
545	131 - LSE - Minimum setpoint	°F	-150,0	999,9	-67,0	2	-67,0	2
546	132 - HSE - Maximum setpoint	°F	-150,0	999,9	32,0	2	32,0	2

Below the table are several control sections:

- Device manipulation options:** Includes radio buttons for 'Listed', 'Activated', and 'All'. There are buttons for 'Load from device', 'Write to device', and 'Verify'. A checkbox 'Selected' is checked. There are also radio buttons for 'memory' and 'file' with a 'Search...' button.
- Serial port:** A dropdown menu showing 'Com1' and a button for 'Serial port1'.
- Link:** A section with a 'Parameter' dropdown showing '546', a 'Stop' button, and a red indicator '1 different'.
- Special functions:** Includes buttons for 'Cfg' and 'Lock'.
- Internal E2 status:** Includes an 'Activate E2' button.
- Apply button options:** Includes radio buttons for 'to memory' and 'to file' with a 'Search...' button.
- Bottom buttons:** 'Apply', 'Print...', and 'Close'.

#### case A • Lock disabled

On the instrument, for example, the value 131-LSE in °C will be edited; the instrument will automatically recalculate all the measurement units on the basis of the current type of setting.

As can be deduced from the example, despite the fact that there has been a change to the parameter in °C, the device, which is making the setting in another measurement unit, will recalculate the four parameters on the basis of the current type of setting, editing not only the value in °C but also in °F (highlighted in red), independently of the operator.

## Case B • Lock enabled

**Serial link with device**

Index	Description	Unit	Min	Max	Value	Protection	Device value	Device protection
529	131 - LSE - Minimum setpoint	°C	-100,0	600,0	-55,0	2	-55,0	2
530	132 - HSE - Maximum setpoint	°C	-100,0	600,0	0,0	2	0,0	2
545	131 - LSE - Minimum setpoint	°F	-150,0	999,9	-67,0	2	-67,0	2
546	132 - HSE - Maximum setpoint	°F	-150,0	999,9	32,0	2	32,0	2

Device manipulation options:

☒ Listed    ☐ Activated    ☐ All  
☒ memory    ☐ file

Serial port: Com1    Serial port1

Link: Parameter 546       

Internal E2 status:

Special functions:    

Apply button options: ☒ to memory    ☐ to file   

On the instrument, for example, the value in °C of parameter 131-LSE will be edited and the instrument will NOT recalculate the other measurement units, i.e. it will save the changes made by the operator.

If the device is setting in °C, the setting will be edited on the basis of the changes.

If the device is setting in another measurement unit, the setting will be independent and will not take into account the changes unless the setting is changed manually on the device.

Note: usually, the operator prepares the map that he/she intends to load into the device, inclusive of the doubled/quadrupled parameters that involve the assigning of different default values on the basis of the different measurement units.

With the Lock function, therefore, it is guaranteed that the values assigned in this session will be written accurately.

### 3.8 Analysis function and automatic error correction

These **functions**, which are always active, verify the coherence of the selected values by using the **inferential rules and limits** that link the parameters of the list. Errors, if present, are highlighted to allow the operator to correct them manually. Alternatively, it is also possible to click button:



To start the "automatic error correction" procedure which resets the incorrect parameters to default values.

### 3.9 Semantic analysis function

This function is able to analyze the map of parameters by linking it to the rules and limits of typical types of systems, which are selected by the user. This enables to check the formal coherence of customized maps.

#### PARTIAL FILES

#### 3.9.1 Partial files

If a partial file (i.e. a file in which not all the parameters are active) is opened, the program attempts to automatically *merge* the map in the file with the active one in the memory. This changes the content of the memory in the map.

The merge function is particularly useful when it is necessary to create a single map from several **partial files**. Before overwriting the data, the program displays a dialog (Yes/No/All/Cancel) requesting the operator to confirm the operation for each parameter.

If the file being read contains a complete map, the program asks the operator to confirm the overwriting of the whole map.

#### IMPORTING/EXPORTING MAPS IN DBASE IV FORMAT

Operators can select the menu items [Menu-File-Import] or [Menu-File-Export]

These **functions** are useful to verify the compatibility with the parameters map generated with previous DOS versions of Param Manager.

The dBase export function (this format is used to enable the data to be read by several program releases) does not allow the exportation of all the characteristics of the parameters described in Param Manager 3.0. As a result the following attributes will be cancelled:

- Name and release of the reference program
- Name and version of the reference model
- Language of the reference model used to manage the map
- Name of the author, title, file (with path), model, log and notes used in the print report.

## 4 RESPONSABILITY AND RESIDUAL RISKS

**Eliwell Controls s.r.l.** shall not be liable for damages originating from:

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## 6 APPENDIX-PCINTERFACE

### 6.1 PCInterface interface module



PC Interface series 2150 is an RS-232/TTL-RS-485 interface module that enables a PC with an RS-232 interface port to communicate with a device compatible with protocol Micronet/Televis, connected by means of a TTL or RS-485 port. The device must be equipped with the BlueCard activation module, supplied with Eliwell's software package licenses. PC Interface series 2150 is supplied in a 9-module DIN plastic housing (155x117 mm; depth 51 mm), which can be mounted on DIN guides (Omega 3) or wall-mounted, and is powered by the mains.

-->For installation and wiring information, see the technical datasheet of device **9IS43083 PCInterface 2150 series**.

### 6.2 Smart Adapter

**Smart Adapter** is a module for the Televis network that can be used to manage devices with Modbus protocol.



-->For installation and wiring information, see the technical datasheet of device **9IS44008 SmartAdapter200**.

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**Eliwell Controls S.r.l.**

Via dell' Industria, 15 Zona Industriale Paludi  
32010 Pieve d' Alpago (BL) Italy  
Telephone +39 0437 986 111  
Facsimile +39 0437 989 066

**Sales:**

+39 0437 986 100 (Italy)  
+39 0437 986 200 (other countries)  
saleseliwell@invensys.com

**Technical helpline:**

+39 0437 986 300  
E-mail techsuppeliwell@invensys.com

[www.eliwell.it](http://www.eliwell.it)



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