



EXTPRO *ApploaderPRO* Setup & Use

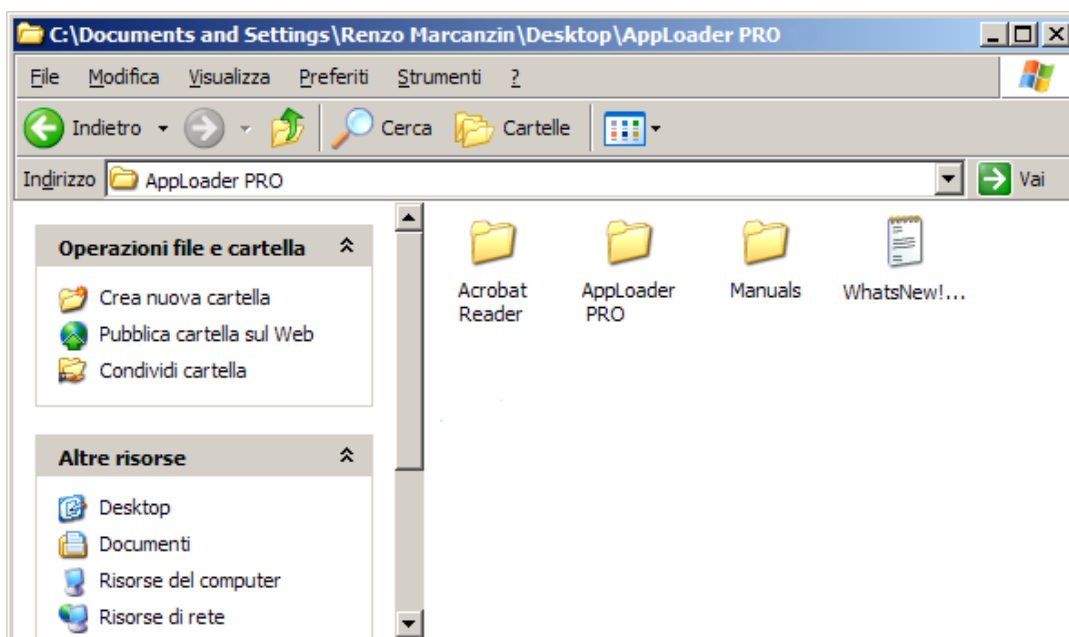


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1 CDROM APPLoaderPRO CONTENTS

The CD “**ApploaderPRO**” contains the following folders:



The contents of the folders are listed below: to install the software please go to [AppLoaderPRO Setup](#):

Acrobat Reader

Acrobat Reader: It contains the installation of the **Acrobat Reader** program (for displaying and reading the files in “pdf” format).

ApploaderPRO

ApploaderPRO: It contains the application **ApploaderPRO** to install.

Manuals

Manuals: It contains the documentation and **manuals**.

WhatsNew!

WhatsNew!: Specifies the differences between the current application and previous.

2 APPLoaderPRO SETUP

2.1 AppLoader PRO



This program can be used to download the application developed with **AppCreator** (see **Development Tools manuals**) to the memory of Energy XT-PRO.

AppCreator is designed to allow users to group application, menu and link table data into a single file.

AppLoader PRO enables users to download data to the internal memory of Energy XT-PRO through the RS232 port, thus eliminating the need of using AppMaker and the RS-485 port.

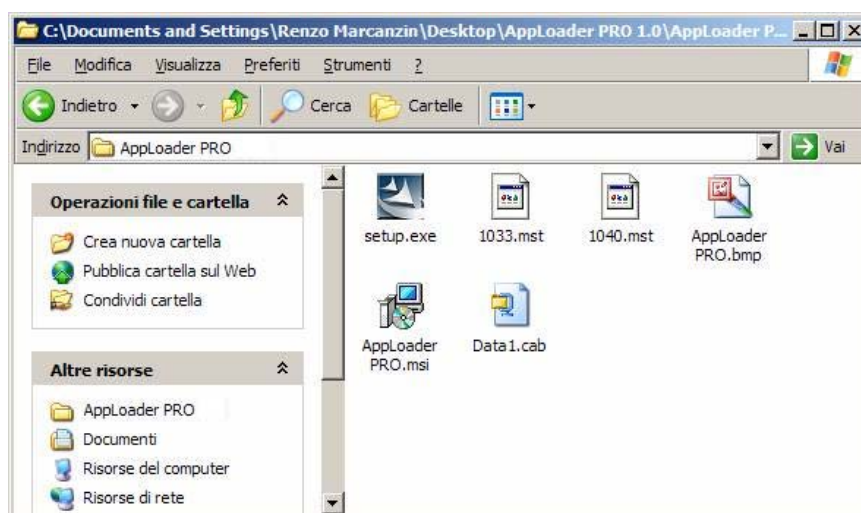
NOTE: AppCreator is particularly useful to distribute developed applications in single file, so that it is possible to quickly program Energy XT-PRO even without the AppMaker suite.

To use the program, you need a PC with the following specifications:

- **CD-ROM** drive to be able to install **AppLoaderPRO**.
- **RS232** serial port.
- DB9-DB9 Null-modem cable (supplied). **NOTE:** the distance between PC and EXT PRO should not exceed 2 metres.
- The .shx file created with AppCreator you wish to download to the internal memory of Energy XTPRO.
NOTE: the maximum dimension of the download application (developed with "IsaGRAF") is 128k for firmware mask until 213.26 and it is 192k for following firmware mask to 213.26 and for all the firmware mask 388.xx
- Habilitation key.

2.2 Apploader PRO installation

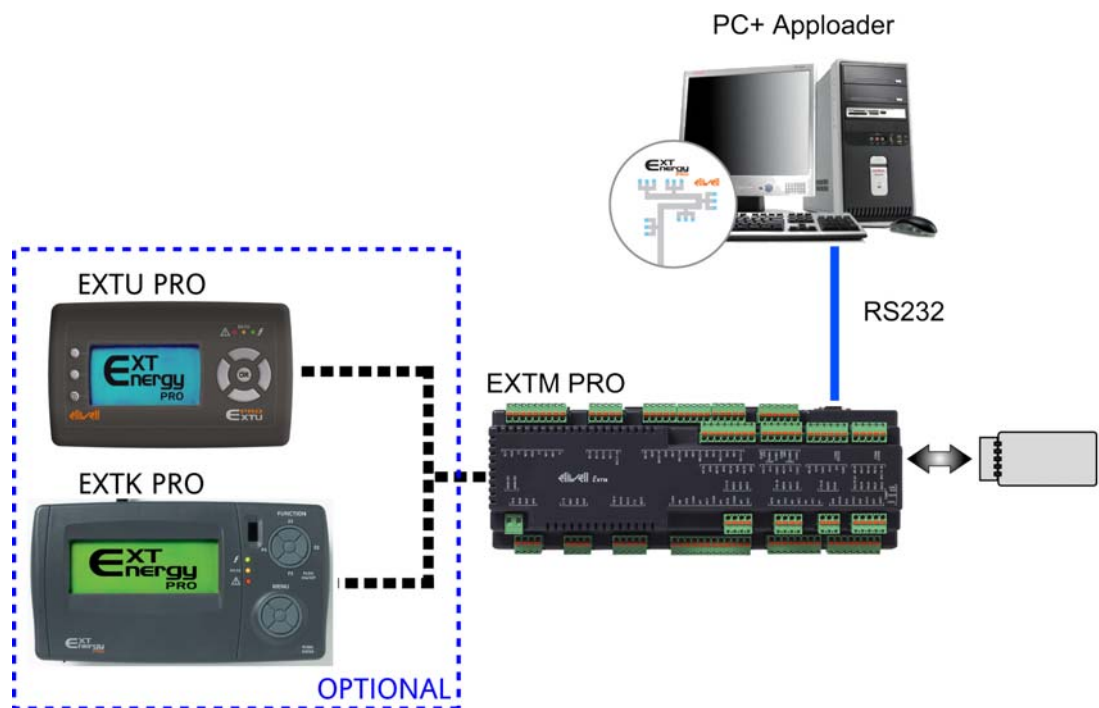
Locate the folder named "**AppLoaderPRO**" on the CD-ROM of **AppLoaderPRO**, run setup.exe and follow the instructions of the Installation Wizard.





2.2.1 Connecting the PC to Energy XT PRO

- Connect the serial output of the PC (RS232) to the corresponding serial input of Energy XT-PRO with the DB9-DB9 Null-modem cable.



Note : Switch the instrument ON only after connecting the Habilitation Key (see Par. "Use of the Habilitation Key").

2.2.2 Use of the “Habilitation Key”

The ‘Habilitation Key’ is a device which allows to upload the application AppMaker into Energy XT PRO through the IIC bus port. You can find code and characteristics below:

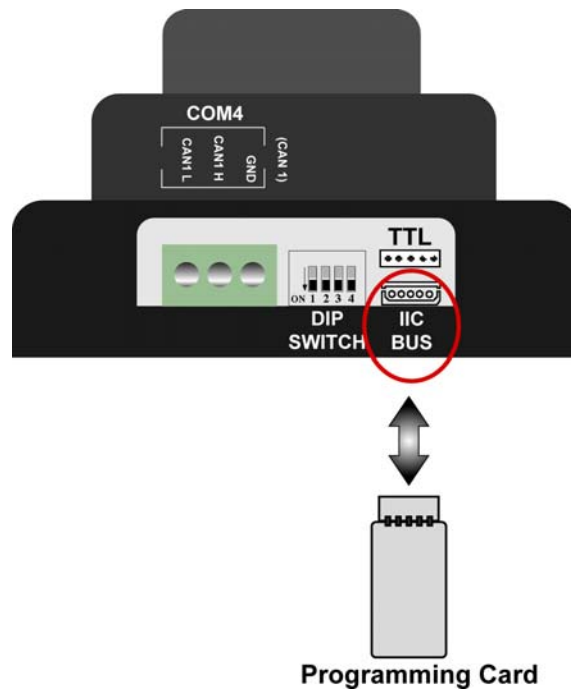
Codice	descrizione
SLP1601AL0000	KIT APPLoader PRO (Habilitation Key + CD-ROM + RS232 cable)



Note: the ‘Habilitation Key’ does not perform any data upload/download into EXT PRO but only enables the application download into Energy XT PRO using a RS232 cable connected to the COM3 port of Energy XT PRO (see Par. “[Connecting the PC to Energy XT PRO](#)”).



Before downloading the application to Energy XT PRO, connect the “Habilitation Key” to the IICbus port of XT-PRO, as shown in the following figure:



Switch the Energy XT-PRO ON and **after removing the ‘Habilitation Key’**** follow the described procedure of “Application Download” to carry out the download.

NOTE

If the EXTK PRO or EXTU PRO keyboard is present, the display will switch on and the message ‘Energy XT PRO’ will appear. Wait for some seconds until the yellow LED RX/TX of the EXTK PRO or EXTU PRO keyboard flashes. Otherwise, turn off and turn on the instrument.



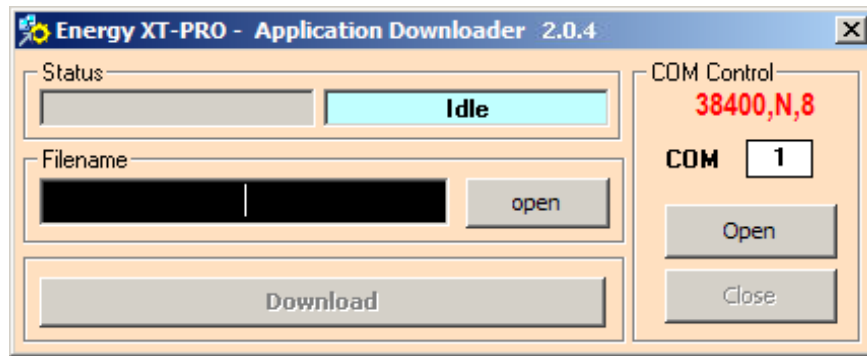
**Once the below described download procedure has been activated, remove the ‘Habilitation Key’ before the procedure is completed, otherwise at the end of the programming the XTPRO remains in stand-by until a new download procedure is activated.

Otherwise, at the end of the download procedure, a warning message for the user will appear (see Par. “Downloading the application → Energy XTPRO via [ApploaderPRO](#)”)

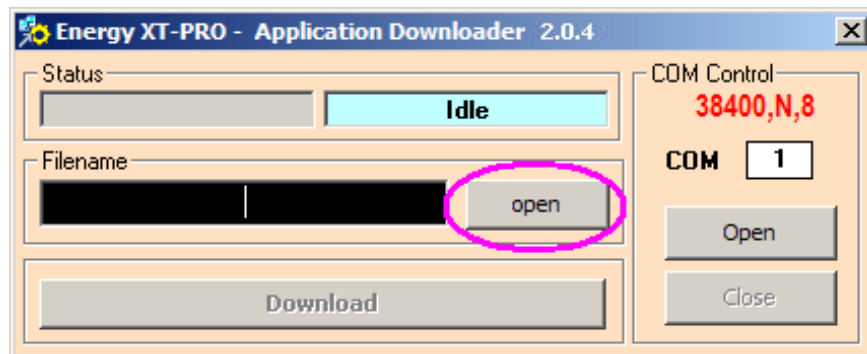
2.2.3 Downloading the application --> Energy XTPRO via ApploaderPRO

To download the application developed with **AppMaker**, perform the following operations:

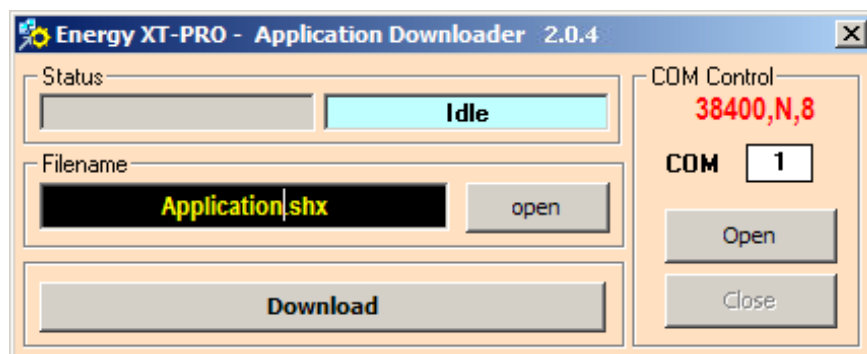
1. Start [AppLoader PRO](#).
2. Select the file you wish to download and open the serial.



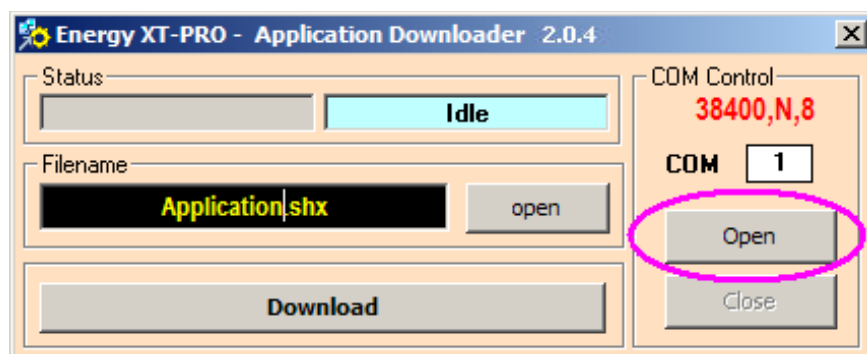
3. Select the downloadable file created with AppMaker



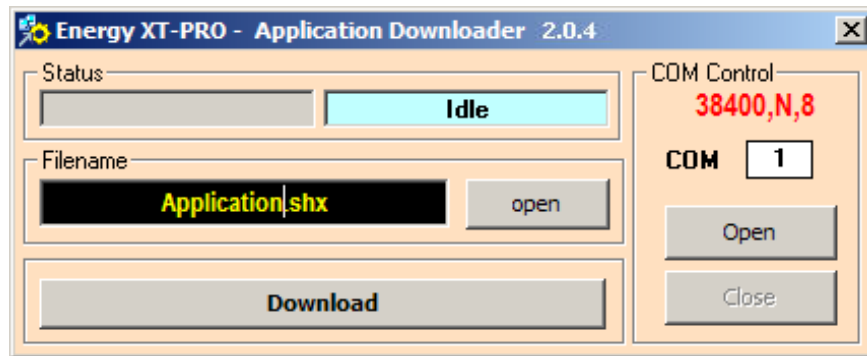
In the example **Application.shx** that contains code ready to be downloaded to the memory of Energy XT-PRO):
NOTE: the maximum dimension of the download application (developed with "IsaGRAF") is 128k for firmware mask until 213.26 and it is 192k for following firmware mask to 213.26 and for all the firmware mask 388.xx



4. Select and open (with OPEN button) the serial port (COM1 in this case) that you wish to use for the download operation. Verify that the Download button enables.

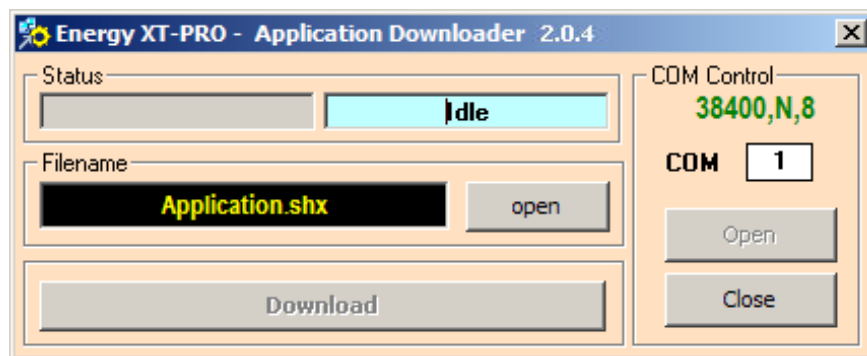


5. If the 'Download' button is enabled, select it to start downloading of the application into Energy XTPRO.

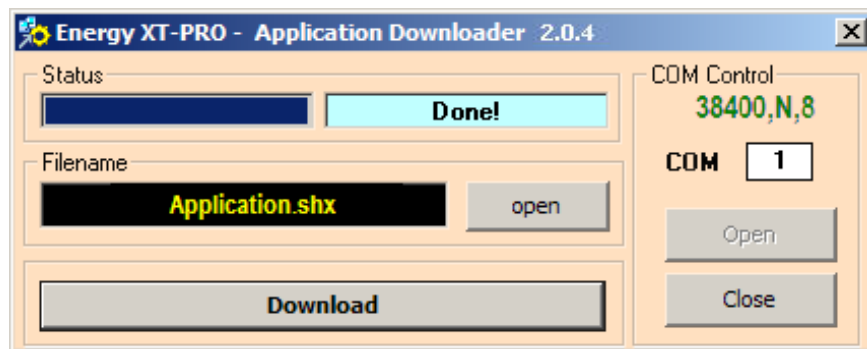


NOTE:

- if the 'Download' button and/or the 'Open' button (COM Control side) do not enable, **contact Eliwell's Technical Support to solve the problem.**



6. If everything proceeds in the correct way the screenshot will display the message 'Done!'



7. For all the firmware masks, the last screenshot will display a message to remember to the user to remove the "Habilitation Key".

NOTE: The "Programming Card" in the message below is the "Habilitation Key" (see Par. "Use fo the Habilitation Key")



By pushing the OK button the programming procedure will be.

8. If the user want to save a new file, please repeat the procedure from the beginning, starting again from the reset of the instrument.

9. Update of the glossaries for the. To do it, at the start-up of the keyboard, hold down F3 button (EXTK PRO keyboard) or ON/OFF button (EXTU PRO keyboard).
10. At the end of the procedure, the display of the keyboard (EXTU PRO or EXTK PRO) shows the messages: 'EEPROM USER' and 'EEPROM BIOS'



11. In order to make to disappear the error message, to enter and to exit from the configuration mode.



NOTE

- 1) If the EXTK PRO or EXTU PRO keyboard is present, wait for some seconds until the yellow LED RX/TX of the EXTK PRO or EXTU PRO keyboard flashes does not flash anymore but remains fixed. From this moment the programming procedure is concluded.
- 2) Remember to manually close the COM port even if the program will not close.

2.2.4 Error Message

2.2.4.1 “RTC ERROR” error

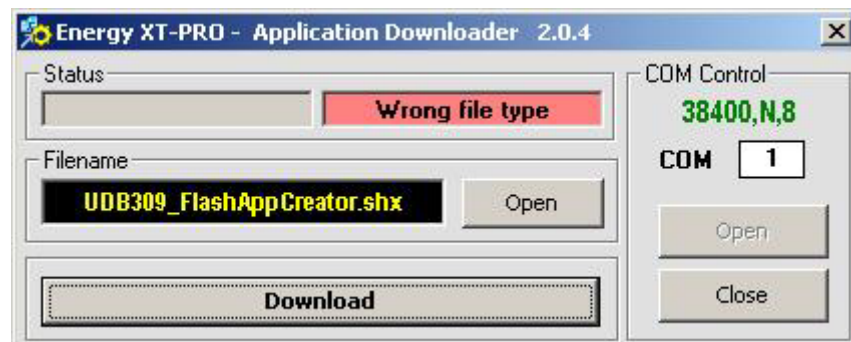
If at the end of the download procedure, the display of the keyboard (EXTU PRO or EXTK PRO) shows the messages: ‘RTC ERROR’ it means that the Energy EXT PRO was switched off for a long time.



In order to make to disappear the error message, set data and/or time on the keyboard.

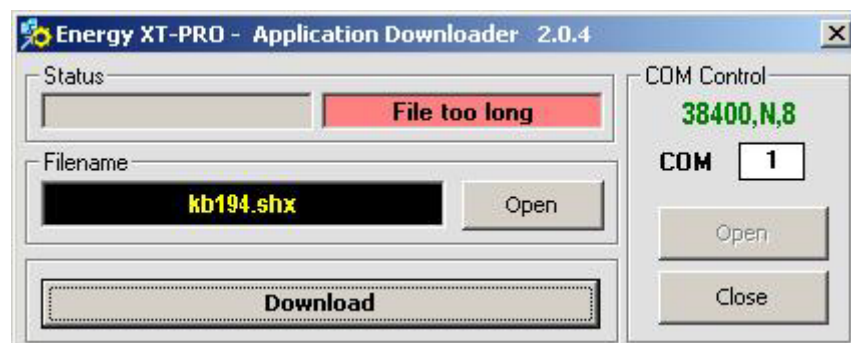
2.2.4.2 “Wrong file type” error

If during the download procedure, the screenshot will display the message ‘**Wrong file type**’ on red background, it means that the user tried to download a file higher than 128k inside a EXT PRO base with firmware mask MSK213.26 or lower.



2.2.4.3 Errore “File too long”

If during the download procedure, the screenshot will display the message ‘**File too long**’ on red background, it means that the user tried to download a file higher than 192k inside a EXT PRO base with firmware mask MSK213.30, MSK388.03 or later.



3 DISCLAIMER



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3.1 AppMaker e WORKBENCH

AppMaker and WORKBENCH are based on IsaGraf software, an ICS Triplex registered trademark. All rights reserved.

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