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# TL21 PROGRAMMER

## USER MANUAL



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# 1. INTRODUCTION

The **Portable Remote Programmer for Selectors and Payout Units** (Hereafter the **TL21**) is an autonomous, portable, and easily managed system conceived and designed to facilitate reprogramming and communication with the Selectors and Payout units manufactured by **AZKOYEN**, "at the machine".

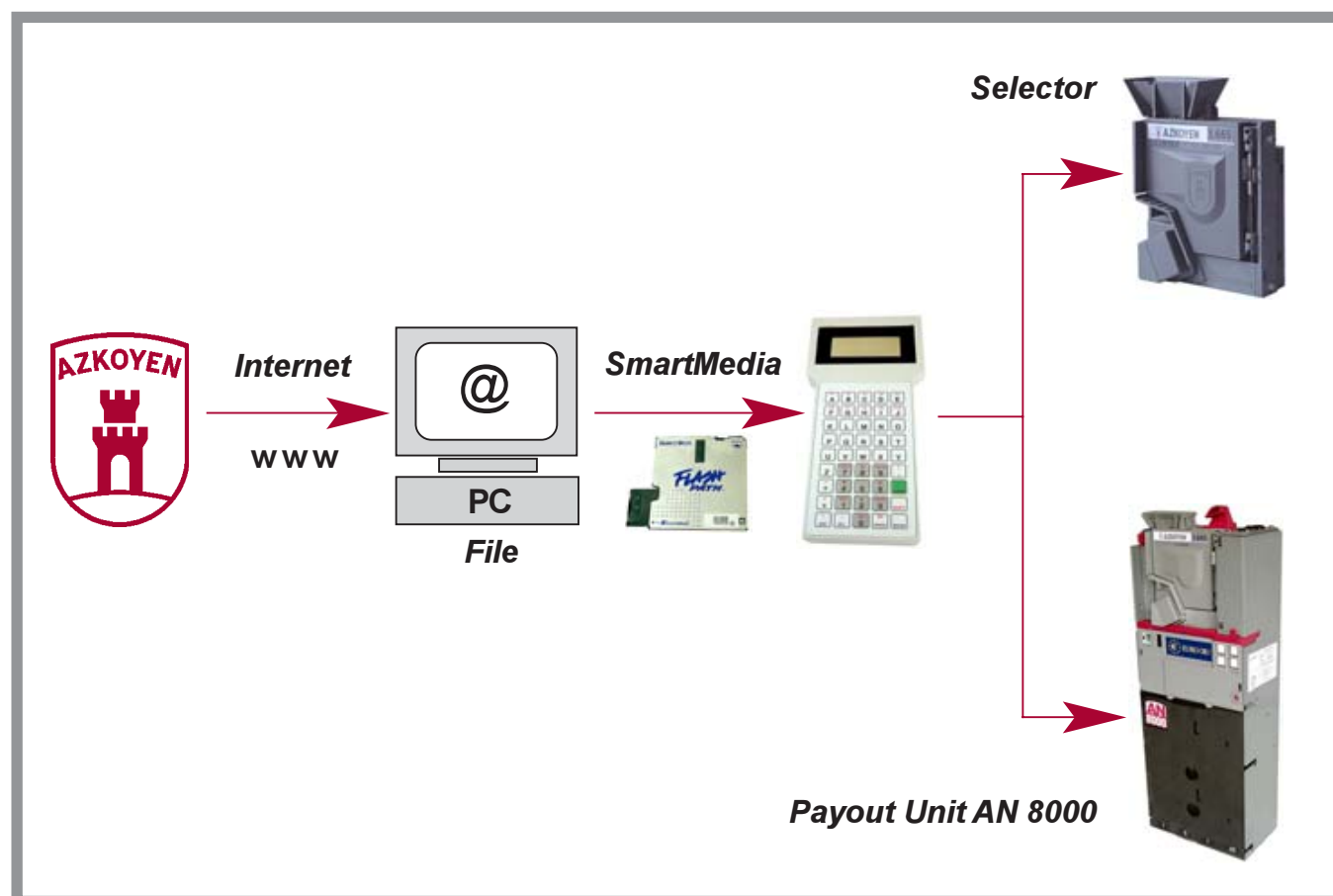
For reprogramming with the **TL21**, it is not necessary to use any kind of coin or token, given that its technology is based on the Selector calibration.

## What is the calibration?

During the manufacturing process, Selectors are checked one by one, and the data obtained from this check are collected in a large database. These data will subsequently serve to prepare new coin programming exactly according to each Selector, without the need to use coins or tokens. All of the Selectors are finally marked with a unique serial number that are used to identify them.

The **TL21** included in the standard kit is configured for the **L66S**, **LS6**, and **ES525-BDTA** family of selectors (selectors for vending and recreation machines) and for the **AN-8000** series Payout Units. It is possible to configure a personalised card located in the battery housing in order to support other kinds of selectors. See the "Accessories" section for more information.

The elements necessary for being able to correctly operate the **TL21** are structured as shown in the following schematic:



## 2. THE TL21 PROGRAMMER

### 2.1 PRESENTATION OF THE BASIC KIT

The basic kit being presented here, which is necessary for updating selectors, is equipped with the following components.



**Figure 1.** Basic Kit. Ref. 41105971-0

- |          |   |
|----------|---|
| <b>1</b> | Carrying bag.                               |
| <b>2</b> | TL21 Programmer.                            |
| <b>3</b> | RS232 cable.                                |
| <b>4</b> | 16-way parallel cable.                      |
| <b>5</b> | Adapter for SmartMedia Memory and software. |
| <b>6</b> | 8-Mb SmartMedia Memory Card.                |
| <b>7</b> | Package of 4, LR6 batteries.                |
| <b>8</b> | CD with applications for PC and Manuals.    |
| <b>9</b> | 5V power supply adapter.                    |



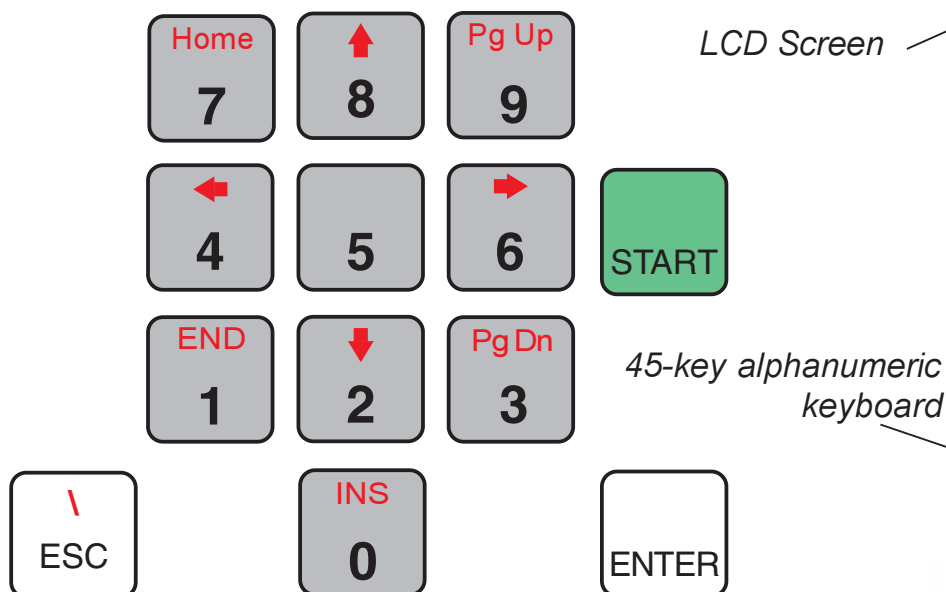
## 2.2 GENERAL DESCRIPTION OF THE TL21

The **TL21** Programmer is a hand-held terminal that consists of the following:

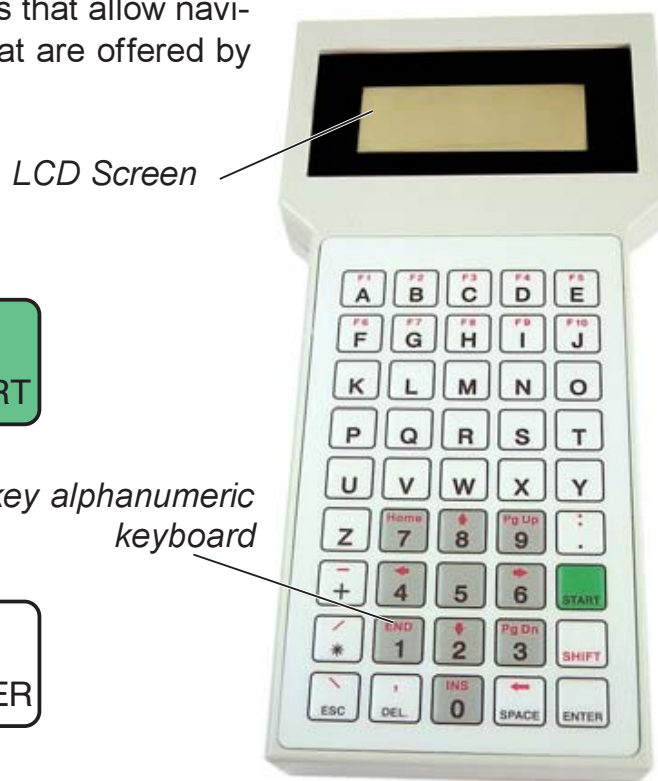
- 1 LCD screen and a 45-key alphanumeric keyboard.

The LCD display format is 4 x 16 characters, grey-coloured.

The keyboard includes all of the keys that allow navigating among the various options that are offered by the **TL21** menu.



**Figure 2.** Navigation keys

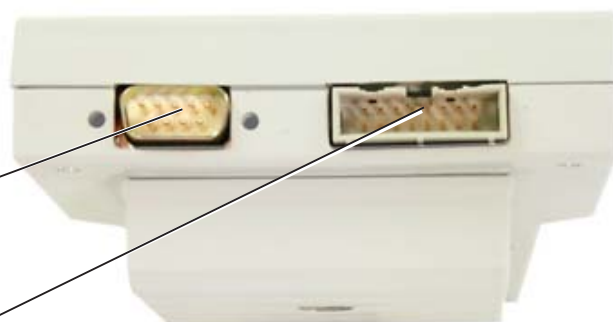


**Figure 3.** Programmer

- 2 Connection ports for selectors and for PC's (At the top).

RS232 serial connection

16-way parallel connection



**Figure 4.** Programmer (top part).

- 3 Slot for the SmartMedia card (On the right-hand side).

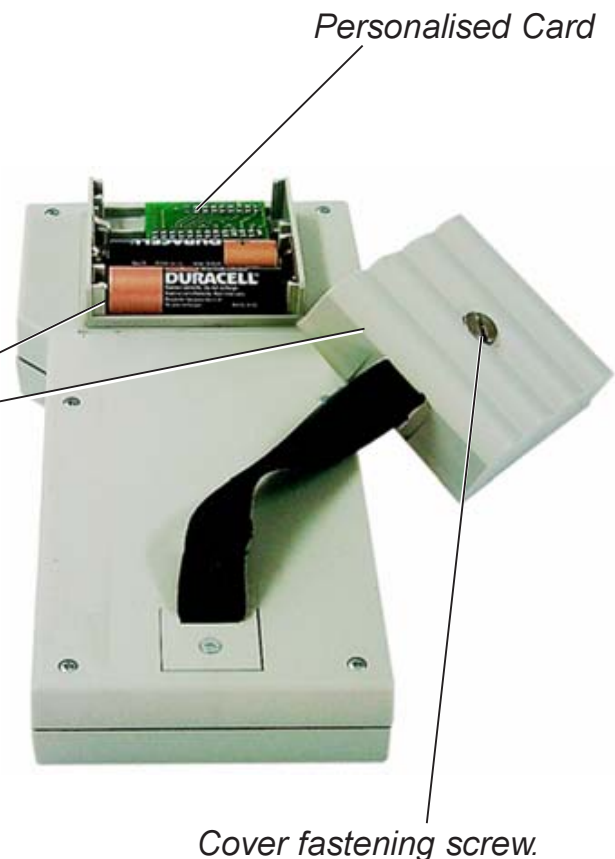
Eject button



**Figure 5.** Input for SmartMedia



- 4** Housing for power cells or re-chargeable batteries, LR6 type  
(At the back).
- 5** Personalised card. This card is necessary in order to adapt the **TL21** to the various kinds of Selectors and Payout Units (At the back).

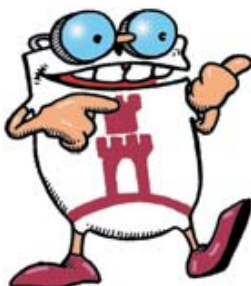


**Figure 6.** Housing for power cells or re-chargeable batters, LR6 type, and cover.



- 6** 5 V DC / 1.2 A power supply input (On the right-hand side).

**Figure 7.** Power supply input for external adapter.



**ATTENTION !!**

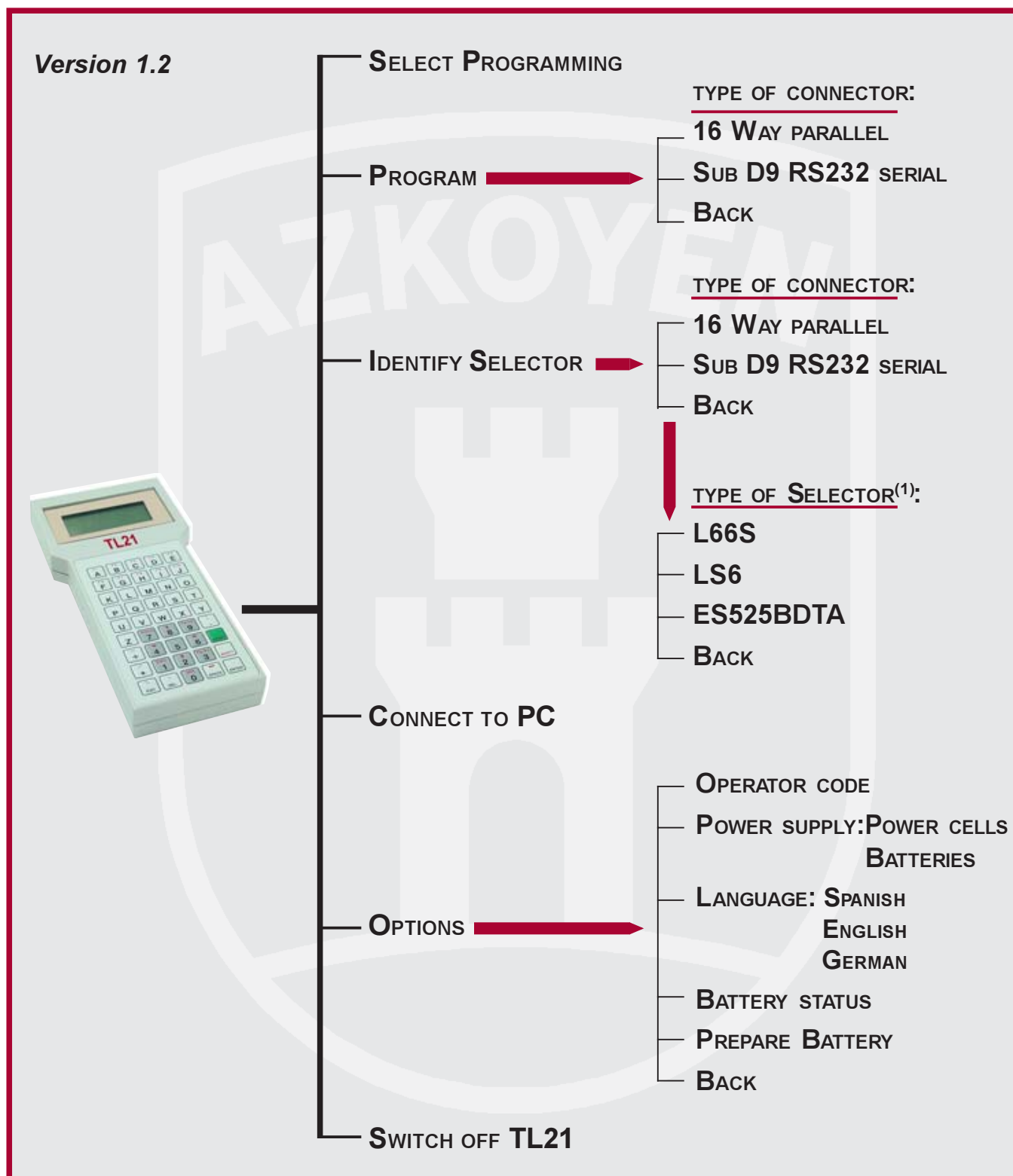
**ONLY THE POWER SUPPLY ADAPTER PROVIDED BY AZKOYEN SHOULD BE CONNECTED.**

**THE USE OF ANY OTHER POWER SUPPLY ADAPTER MAY CAUSE SERIOUS DAMAGE TO THE PROGRAMMER.**









## 2.3 FUNCTIONS OF THE TL21 PROGRAMMER

The **TL21** Programmer offers various possibilities and menus for working with its multiple options. The general schematic of the functions that the Programmer includes are presented below.

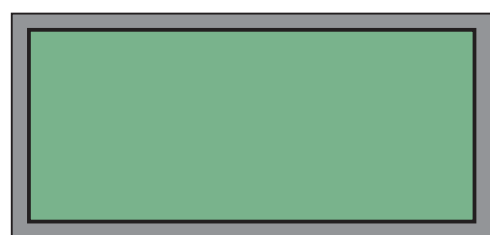


## 2.3.1 DESCRIPTION OF THE TL21 PROGRAMMER FUNCTIONS

The options of the **TL21** Programmer that allow the Selectors and Payout Units to be clearly and simply updated, thereby providing all of the information for the process, are displayed and activated by using the navigation keys.

MAIN KEYS			
		Validates the option selected.	
		Returns to the previous screen (like the "Back" option).	
		They select the various menu options.	
		Display message with more than 16 characters.	

### TURNING ON



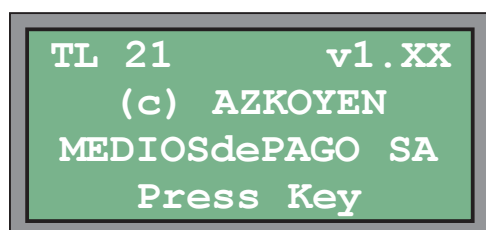
The **TL21** is turned on by holding down the **START** button for at least half of a second.

Press



The first time that the **TL21** is started, a menu appears where the desired language must be selected.

Press



This screen blinks when displayed, and the main menu is accessed by pressing any key.

Press Key





Press Key

```

PROGRAMMING
-> Select Program
-> Program
-> Ident.Coin Val
  
```

The various possibilities are activated by using the navigation keys. The option that is blinking is chosen by pressing **ENTER**.

```

PROGRAMMING
-> Connect to PC
-> Options
<- Switch Off
  
```



## **SELECT PROGRAMMING (REFERENCE NUMBER)**

```

PROGRAMMING
-> Select Program
-> Program
-> Ident.Coin Val
  
```

This option allows selecting the programming to be introduced into the Selector or Payout Unit, thus giving them a new reference number.

A screen is displayed, which gives information on the content of the SmartMedia card, thereby indicating the following:

- ✓ The reference numbers that the SmartMedia card contains.
- ✓ The reference number of the new programming.
- ✓ The kind of Selector.
- ✓ Informational text.

Press



```

File n 1 of 4
Ref: 41083562-3
Type:L66S
Text:pts+euro
  
```

Press

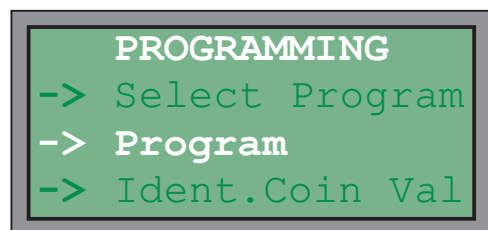


By pressing **ENTER**, it selects the file that is shown on the screen.

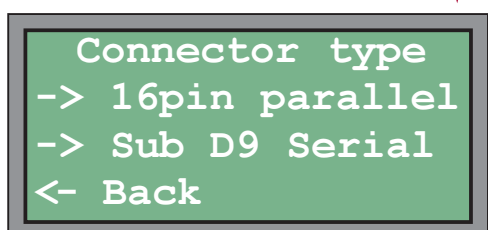
By pressing **ESC**, it returns to the main menu.



## PROGRAM



Press



This option allows reprogramming the Selector or Payout Unit using the previously selected reference number.

It is only possible to access the program menu if a reference number has been selected beforehand.

The screen with the options that allow making the connection is displayed. The option that blinks is the one that is activated.

✓ **16-way parallel:** This connector allows completely autonomous reprogramming of the selectors, whereby the **TL21** supplies the power necessary to the selector through its internal power cells or batteries.

✓ **SUB-D9 serial:** This connector allows configuring the **AN 8000** series Payout units and/or reprogramming the selector installed in the same. In this case, the power for the selector and the Payout unit must be supplied by the machine to which they are connected.

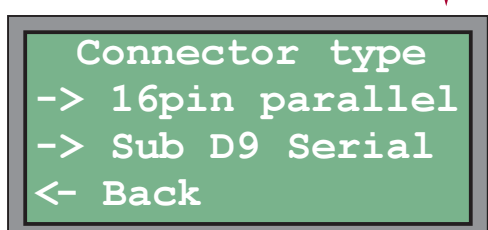
✓ **Back:** It returns to the previous menu.

By pressing **ENTER** while holding down the Back option, or **ESC**, it returns to the main menu.

## IDENTIFY SELECTOR



Press



This option allows identifying the Selector connected to the **TL21** without having to perform any kind of programming. The information remains stored in the programmer, and it can be extracted later using the File Management Software.

A screen is displayed, which shows the options that allow making the connection. The option that is blinking is the one that is activated.

✓ **16-way parallel**

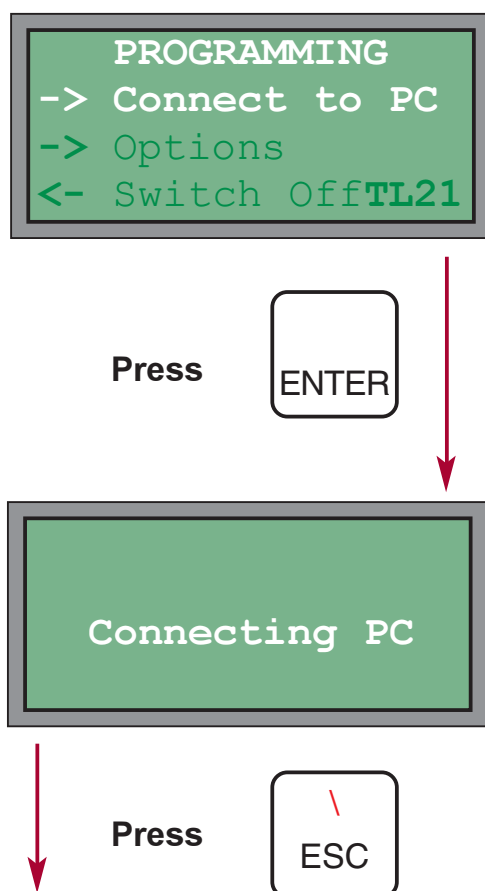
✓ **Sub D9 Serial**

✓ **Back:** It returns to the previous menu.

By pressing **ENTER** while holding down the Back option, or **ESC**, it returns to the main menu.



## 👉 CONNECT TO PC



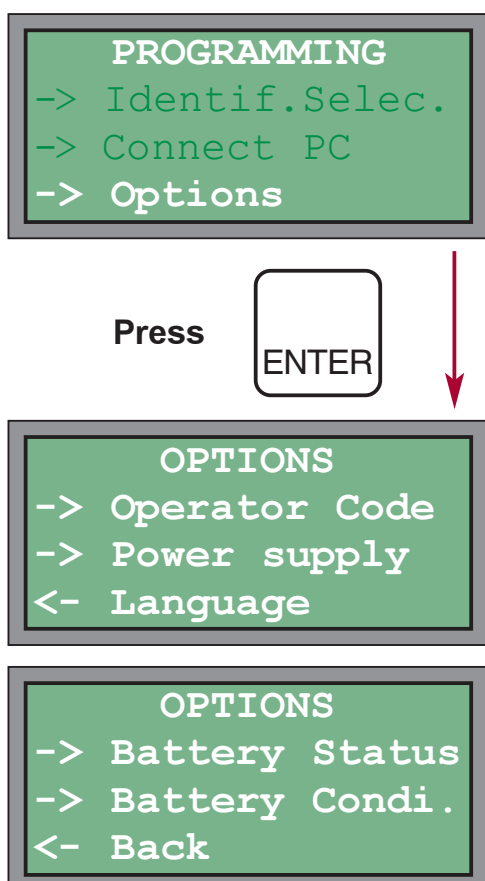
This option allows connecting the **TL21** to a PC using an RS232 serial cable supplied for such purpose.

The **TL21** records all of the programming and identification operations that it performs. In order to access these data, it is necessary to use the File Management Software.

By pressing **ENTER**, the **TL21** goes idle and shows the informational message.

By pressing **ENTER** or **ESC**, it interrupts communications and returns to the main menu.

## 👉 OPTIONS



This function allows accessing the various configuration options of the **TL21**.

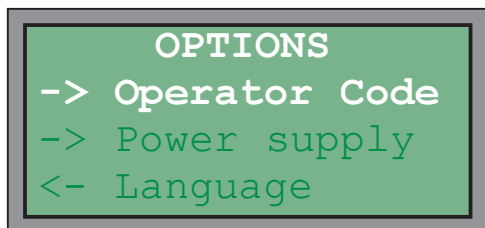
It shows the next menu:

- ✓ **Operator code:** It confirms or changes the Operator Code in order to operate with **AN 8000** Payout units.
- ✓ **Power supply:** It selects the kind of power supply.
- ✓ **Language:** It selects the language of the **TL21** menus.
- ✓ **Battery status:** It shows the available battery charge.
- ✓ **Prep. Batteries:** It prepares batteries in order to recharge them.
- ✓ **Back:** It returns to the main menu.

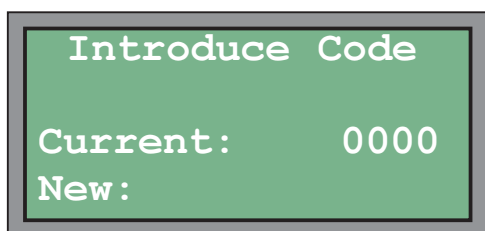
By pressing **ENTER** while holding down the Back option, or **ESC**, it returns to the main menu.



## OPERATOR CODE



Press



Introduce code  
and press

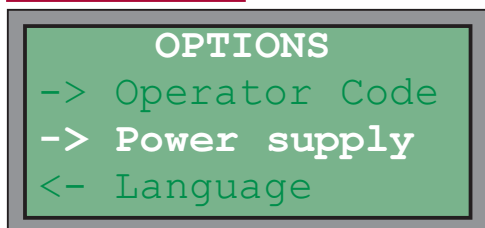


This option allows programming an Operator Code in the **TL21** that will subsequently serve as an identifier for communications with the **AN 8000** Payout Unit. This code must coincide with the one entered into the **AN 8000** using function **F475** in the programming menu of the same.

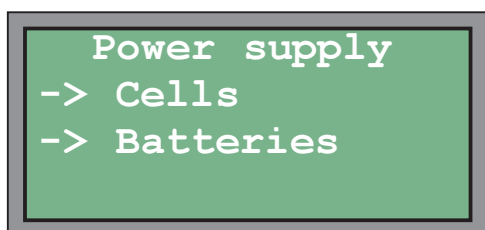
In order to enter the code in the **TL21**, just key in the appropriate numbers and press **ENTER**. If a wrong number is entered, press **ESC** to cancel.

If the **TL21** is being used to reprogram an **AN 8000**, and the code does not coincide, a failed communication message automatically appears and it returns to the start menu.

## POWER SUPPLY



Press

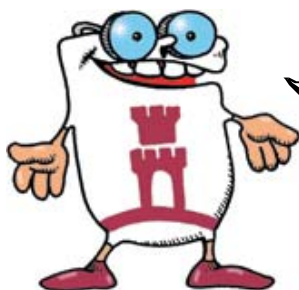


This option allows selecting the kind of power supply for the **TL21**.

The following menu is displayed:

- ✓ **Power cells:** This option is selected when the **TL21** is powered by STANDARD LR6 power cells.
- ✓ **Batteries:** This option is selected when LR6 RECHARGABLE batteries are used.

It thus allows the 5V power supply adapter to recharge the batteries when necessary.

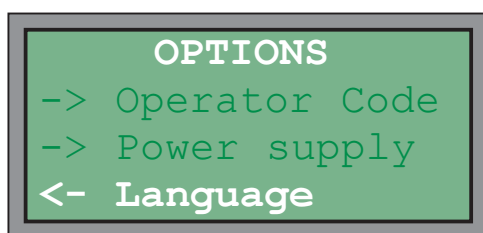


### ATTENTION!

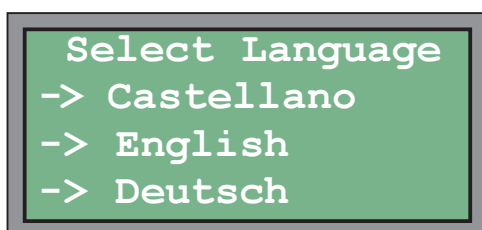
**DO NOT CONFIGURE THE EQUIPMENT IN THE "BATTERIES" MODE IF POWER CELLS ARE INSTALLED, SINCE THE TL21 COULD ENTER THE RECHARGE MODE, THEREBY CAUSING THE POWER CELLS TO HEAT UP AND EXPLODE.**



## **LANGUAGE**



Press

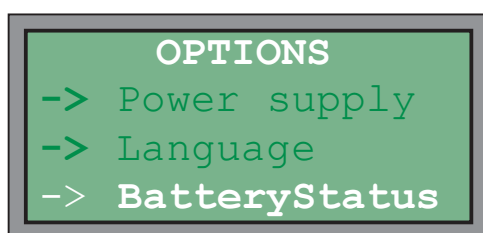


This option allows selecting the language that is used to display the **TL21** menus.

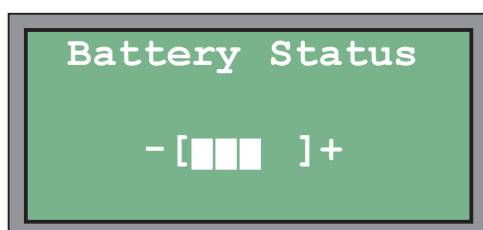
By pressing **ENTER**, the language selected on the **TL21** menu is chosen.

By pressing **ESC**, it returns to the main menu.

## **BATTERY STATUS**



Press



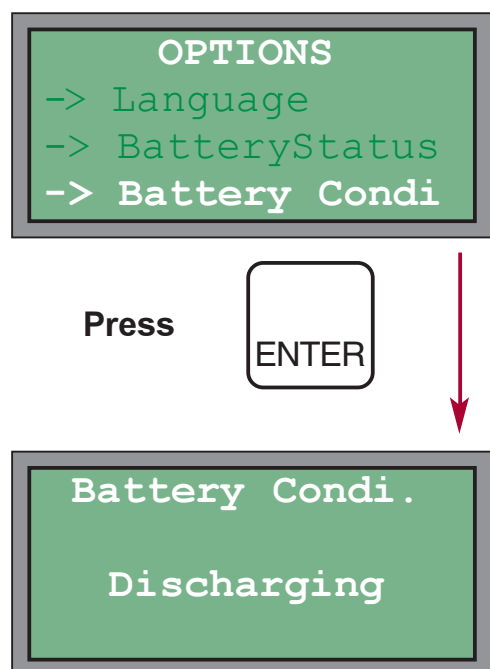
This option shows the power level of the rechargeable TL21 batteries.

This function is only operational if the "Power supply – Batteries" option has been previously selected.

By pressing **ENTER**, it displays the battery status.



### ***PREPARE BATTERY***



This option allows preparing the rechargeable batteries for a full charge. When this option is selected, the batteries are discharged completely, and they are then recharged. Once the recharging is complete, the power supply adapter must be disconnected for a half-hour, after which time it can be reconnected.

It is only operational if the *"Power supply – Batteries"* option has been previously selected and the 5V power supply adapter is connected to the **TL21**.

It is recommendable to perform this operation once a month in order to extend the life of the rechargeable batteries.

By pressing **ENTER**, it proceeds to prepare the batteries.

By pressing **ESC**, it cancels the process and returns to the main menu.

### **TURN OFF THE TL21**



This operation turns off the **TL21**. In any event, the programmer disconnects itself after 3 minutes if no operation has been performed and it is being powered by power cells or batteries.

If the **TL21** is connected to the power supply adapter, it is turned off by unplugging it from the electric system.

The **TL21** Programmer is turned off by pressing **ENTER**







## 2.4 OPERATING MODE

### 2.4.1 OBTAINING DATA

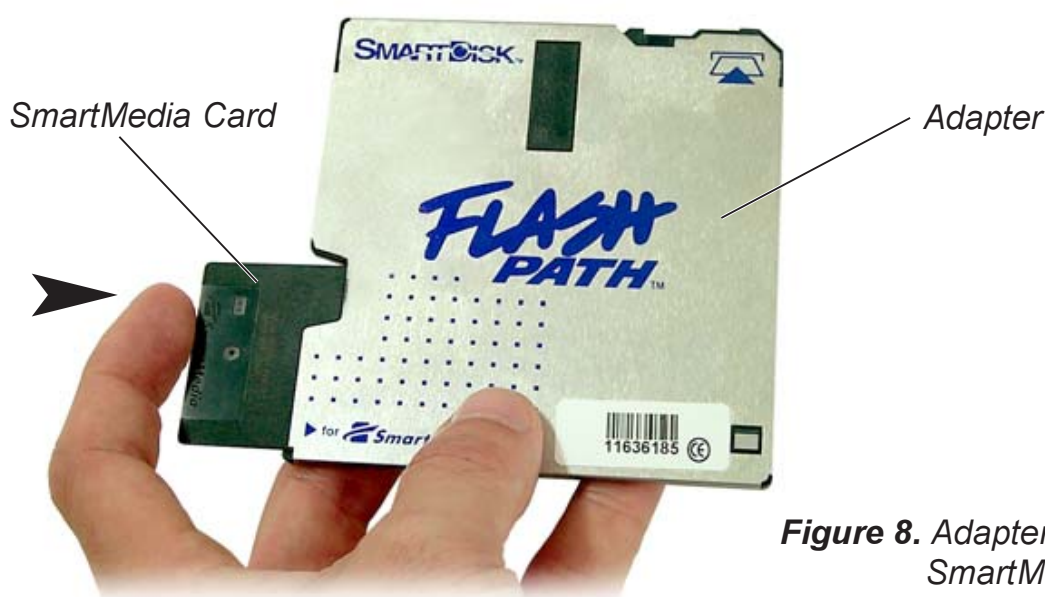
Before being able to operate with the **TL21** Programmer, all of the elements must be configured with the software necessary so that they all work together correctly and in order to obtain the data for the update.



#### PRIOR REQUISITES

- 1 The SmartMedia memory module must be formatted. This operation is performed once the SmartMedia controllers have been installed in the equipment. For this simple process, just choose the appropriate controller for your operating system (W95, W98, WM, NT4, W2000) from the CD-ROM or the floppy disk supplied with the adapter.

In order to copy files from a PC to the SmartMedia card, insert the card adapter into the 3-1/2" floppy disk drive of the computer.



**Figure 8.** Adapter with the SmartMedia Card.

- 2 Have an internet connection available with authorised access to the **AZKOYEN Medios de Pago S. A.** web page and have an e-mail account in order to receive the programming. See point **"3. Obtaining Files via Internet."**
- 3 Have the File Management Software installed in your PC or computer equipment. See the instructions in point **"4. File Management Software for PC's."**

## THE PROCESS OF OBTAINING DATA

After having completed the requisites in the preceding point, the basic process for obtaining data is the following:

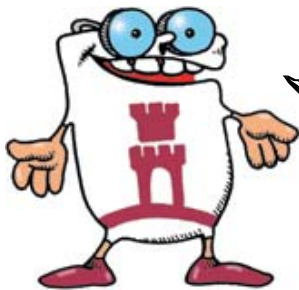
- 1 The desired programs are obtained by using the **Azkoyen Medios de Pago S. A.** web page and an e-mail address. To do so, it is necessary to be authorised as a user.
- 2 The **File Management Software** is then used to copy the new programs to the SmartMedia memory card while its corresponding adapter is connected to the PC.
- 3 The SmartMedia card is then inserted into the **TL21**.

In order to obtain a complete description of this process, follow the instructions in point "**3. Obtaining Files Via Internet**" and point "**4. File Management Software for PC's.**"



**Figure 9.** SmartMedia card in the TL21.

## 2.4.2 SELECTOR REPROGRAMMING



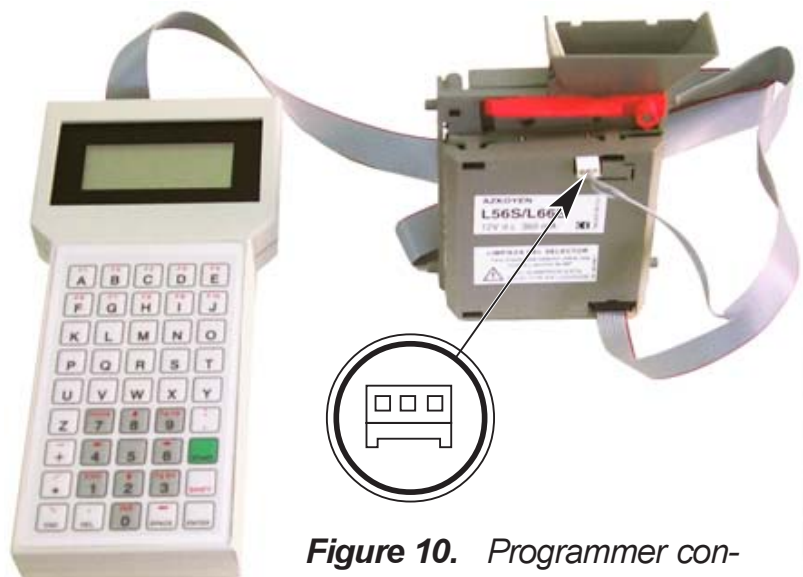
REPROGRAMMING THE SELECTOR DOES NOT ALWAYS MEAN COMPLETE ADAPTATION OF THE MACHINE.

IT IS POSSIBLE THAT IF THE TYPE OF MONETARY CHANGE OR ACCEPTED COINS HAVE BEEN CHANGED, THEN OTHER COMPONENTS SUCH AS THE RETURNER TUBES, HOPPERS, ETC., MAY ALSO NEED TO BE CHANGED.

## CONNECTION TO THE SELECTOR

The TL21 communicates directly with the Selector by using the 16-way parallel cable, thereby supplying the selector with power and identifying the data of the same.

The white connector should be connected to the Selector with the pins down.



**Figure 10.** Programmer connected to the Selector.



## PROGRAMMING PROCESS

```

PROGRAMMING
-> Select.Program
-> Program
-> Ident.Coin Val
  
```

Press



```

File n 1 of 4
Ref: 41083562-3
Type:L66S
Text:pts+euro
  
```



Press



```

PROGRAMMING
-> Select.Program
-> Program
-> Ident.Coin Val
  
```

Press



```

Connector type
-> 16pin parallel
-> Sub D9 Serial
<- Back
  
```

Press



**1** From the start screen, select the option, "**SELECT PROGRAMMING**" and press **ENTER**.

**2** Select the file that contains the data to be used for the reprogramming. To do so, search for the desired file by using the keys "**8**" or "**2**", and press **ENTER**.

**3** The "**PROGRAM**" option will automatically appear blinking. Press **ENTER** in order to access the next menu.

**4** Select the "**16-way PARALLEL**" type of connector used to establish communications with the Selector.

PROGRAMMING

5 When **ENTER** is pressed, the **TL21** proceeds to program the Selector.

RECORDING OK  
-> Program  
-> Back

When reprogramming finalises, the display shows a message thereby indicating that the process was completed successfully.

By pressing **ENTER**, another Selector can be programmed.

By pressing **ESC**, it returns to the main menu.

If the **TL21** is not able to establish communications with the Selector, the following screen is displayed:

Coin Validator  
not connect

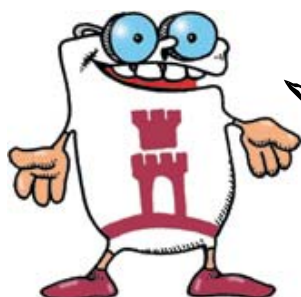
If the serial number of the Selector does not exist in the selected file, it displays the following message:

Coin Validator  
serial number  
not found





## 2.4.3 REPROGRAMMING AN-8000 PAYOUT UNITS



REPROGRAMMING THE PAYOUT UNIT DOES NOT ALWAYS MEAN THE COMPLETE ADAPATION OF THE MACHINE.

IT IS POSSIBLE THAT IF THE TYPE OF MONETARY CHANGE OR ACCEPTED COINS HAVE BEEN CHANGED, THEN THE RETURNER TUBE SYSTEM MAY ALSO NEED TO BE ADAPTED.

The **TL21** Programmer allows performing two completely different operations when it operates with the **AN 8000** Payout Units:

- 1 Reprogramming the Payout Unit:** By selecting the appropriate file, various aspects such as the type of classification, accepted coins, etc., can be reprogrammed.
- 2 Reprogramming the associated Selector** without having to remove it from the Payout Unit.



### CONNECTION TO THE PAYOUT UNIT

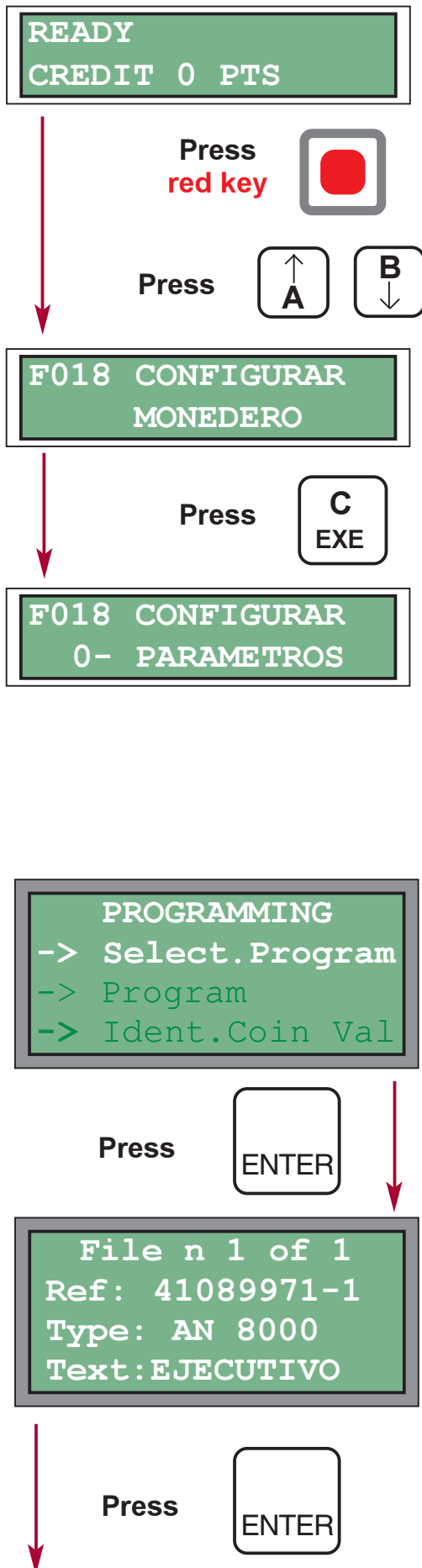
The **TL21** is connected to the **AN 8000** Payout Unit by using the **AN 8000** connection cable bundle (Sub D9 Serial connector not supplied) as shown in **figure 11**.

This cable is only used for establishing communications with the Payout Unit and its associated Selector. The power supply of both must be provided by the machine in which they are installed.



**Figure 11.** Programmer connected to the Payout Unit.

## PROCESS OF REPROGRAMMING THE PAYOUT UNIT



**1** The function **F018** of the Payout Unit must be activated in order to be able to establish communications with the **TL21**.

In order to do so, access the programming menu of the Payout Unit by pressing the "**red key**" and use the keys "**A**" or "**B**" in order to search for the function **F018**. By pressing "**C/ EXE**", a new menu is accessed, which displays three options:

- 0. Used to configure the **Parameters**.
- 1. Used to configure **Flash**.
- 2. Used to configure the **Selector**.

Keys **A** and **B** are used to change the kind of configuring to be performed between "0. Parameters," "1. Flash," and "2. Selector." In this case, it is not necessary to change it, and **C/ EXE** should be pressed in order to select programming the parameters of the **AN-8000**

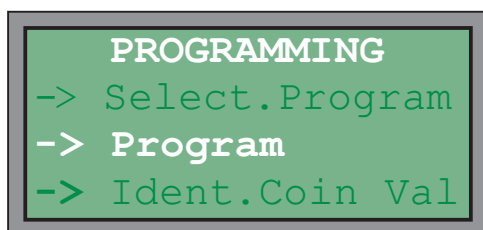
In order to carry out communications, it is necessary that the Operator Code entered into the **TL21** **also be the same** as the one programmed in the Payout Unit.

**2** Once the Payout Unit has been prepared, choose the "**Select Programming**" option from the start screen of the **TL21** and press **ENTER**.

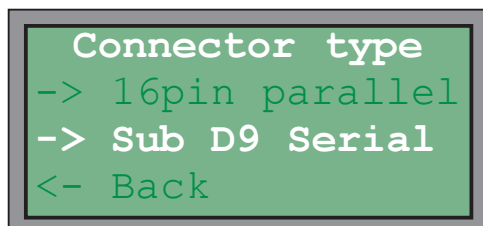
**3** Select the file that contains the data to be used for the reprogramming. To do so, find the desired file by using the keys "**8**" and "**2**" and then press **ENTER**.



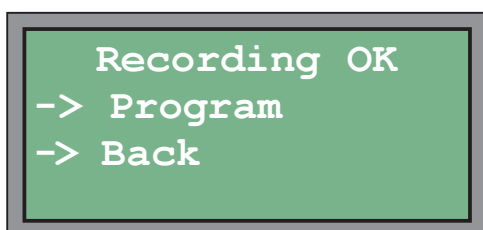
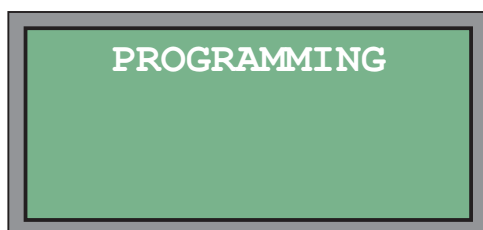




Press



Press



**4** The "**Program**" option automatically appears blinking. Press **ENTER** in order to access the next menu.

**5** Chose the "**Sub D9 Serial**" type of connector with which communications with the Payout Unit will be established.

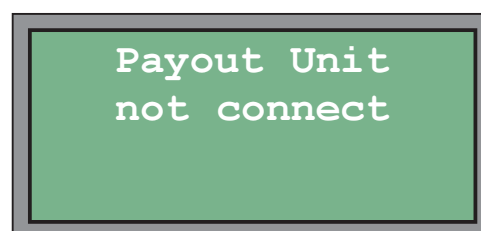
**6** When **ENTER** is pressed, the **TL21** proceeds to program the Payout Unit.

When the reprogramming finalises, the display shows a message thereby indicating that the process was completed successfully.

By pressing **ENTER**, another Payout Unit can be programmed.

By pressing **ESC**, it returns to the main screen.

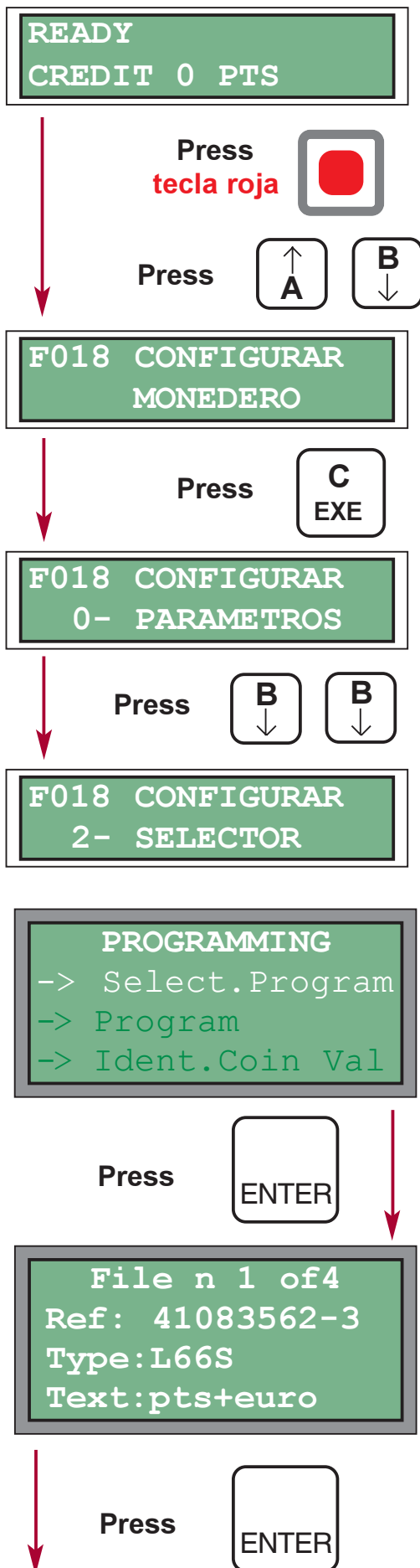
If the **TL21** cannot establish communications with the Payout Unit, the following screen is displayed:



If the operator code configured in the **TL21** does not coincide with the one in the **AN 8000**, then the **AN 8000** rejects the connection and communication is aborted. In this case, the **AN 8000** programming is not changed.



## THE PROCESS OF REPROGRAMMING THE ASSOCIATED SELECTOR



1 The function **F018** of the Payout Unit must be activated in order to be able to establish communications with the **TL21**.

In order to do so, access the programming menu of the Payout Unit by pressing the "red key" and use the keys "A" or "B" in order to search for the function **F018**. By pressing "C/EXE", a new menu is accessed, which displays three options:

- 0. Used to configure the **Parameters**.
- 1. Used to configure **Flash**.
- 2. Used to configure the **Selector**.

Keys **A** and **B** are used to change the kind of configuration between "0. Parameters," "1. Flash," and "2. Selector." In this case, press key **B** two times, and then press **C/EXE** for Selector programming.

In order to carry out communications, it is necessary that the Operator Code entered into the **TL21** **also be the same** as the one programmed in the Payout Unit.

2 Once the Payout Unit is prepared, choose the "SELECT PROGRAMMING" option from the start screen of the **TL21** and press **ENTER**.

3 Select the file that contains the data to be used for the reprogramming. To do so, find the desired file by using the keys "8" and "2" and then press **ENTER**.





```

PROGRAMMING
-> Select.Program
-> Program
-> Ident.Coin Val
  
```

Press

ENTER

```

Conector Type
-> 16pin parallel
-> Sub D9 Serial
<- Back
  
```

Press

ENTER

```

PROGRAMMING
  
```

```

RECORDING OK
-> Program
-> Back
  
```

**4** The "**Program**" option automatically appears blinking. Press **ENTER** in order to access the next menu.

**5** Chose the "**Sub D9 Serial**" type of connector with which communications will be established with the Selector associated to the Payout Unit.

**6** When **ENTER** is pressed, the **TL21** proceeds to program the Selector.

When the reprogramming finalises, the display shows a message thereby indicating that the process was completed successfully.

By pressing **ENTER**, another Selector can be programmed.

By pressing **ESC**, it returns to the main screen.

If the **TL21** cannot establish communications with the Selector, the following screen is displayed:

```

Coin Validator
not connect
  
```

If the serial number of the Selector does not exist in the selected file, it displays the following message:

```

Coin Validator
serial number
not found
  
```

## 2.5 COMPLIMENTS AND ACCESSORIES

In addition to all of the components mentioned up to now, there are a series of accessories and compliments available that are all adapted to the **TL21** Field Programmer in order to work correctly with it.

These elements are listed below:

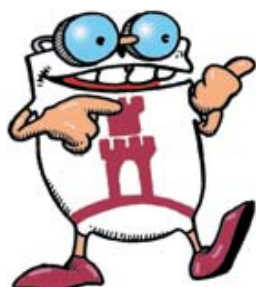
### **BDTA Kit:**

Cable bundle for ES525 BDTA Selectors



### **AN-8000 Kit:**

AN-8000 Connection Cable



IN ORDER TO OBTAIN UP-TO-DATE INFORMATION ABOUT THE AVAILABILITY AND THE REFERENCE NUMBERS OF THE COMPLIMENTS AND ACCESSORIES, CONTACT THE COMMERCIAL DEPARTMENT OF AZKOYEN MEDIOS DE PAGO S. A.





## 3. OBTAINING FILES VIA INTERNET (WEB PAGE & E-MAIL)

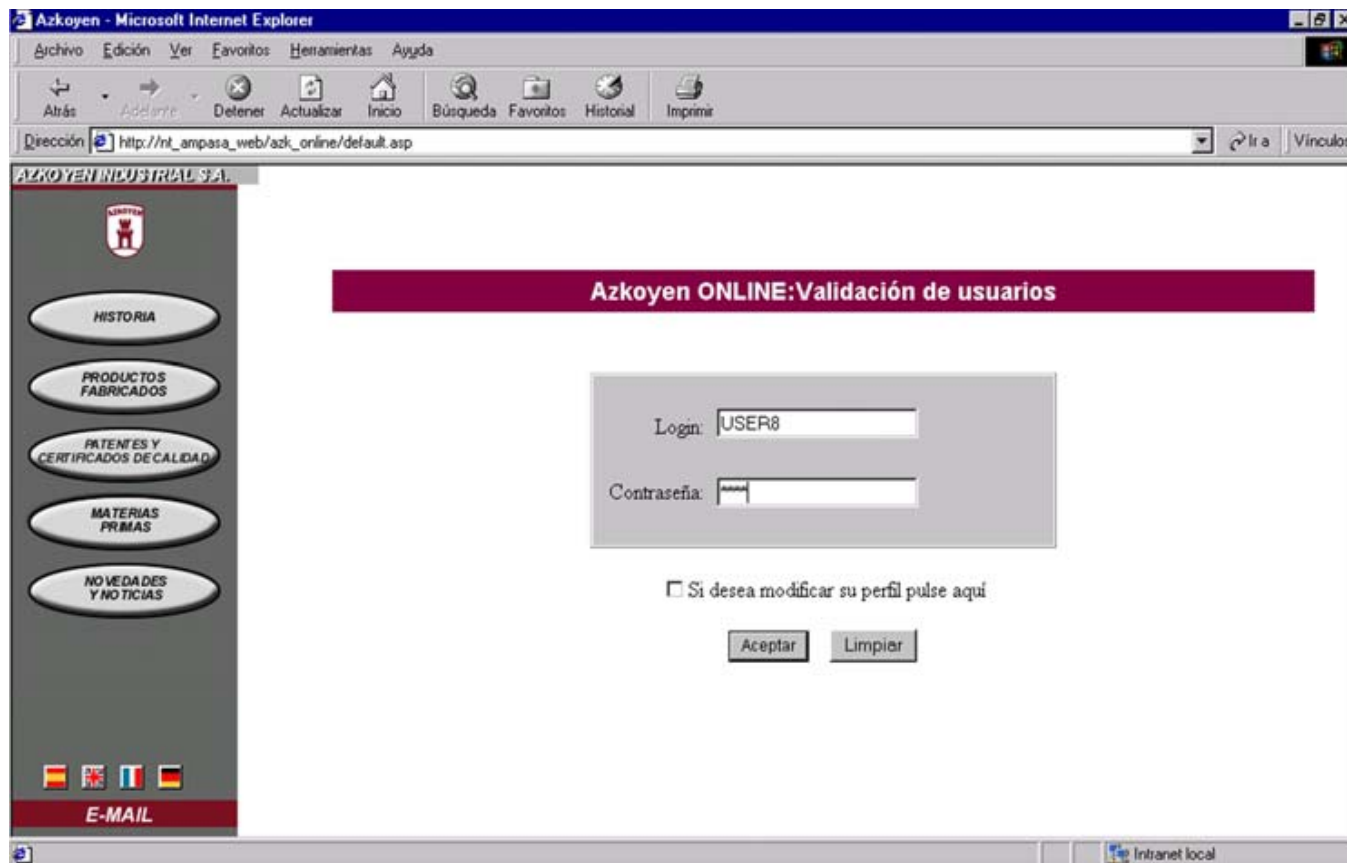
A system has been developed for Internet access to the files that contain the information about the new programming. It is a web page application that facilitates the request of these files by the user.

In order to be able to operate using this method, it will be necessary to have an Internet connection with authorised access to the web page of **AZKOYEN Medios de Pago S. A.** and an e-mail account in order to receive the files with the data on the selector programming. The permission for access is requested through the **AZKOYEN** commercial network.

The request is made by simply navigating through the various web pages, where the necessary requisites and data for obtaining the files are filled out completely.

### 3.1 USER VALIDATION

At this first screen, fill out the "login" form and the user-operator password so that it can be validated and the process accessed.



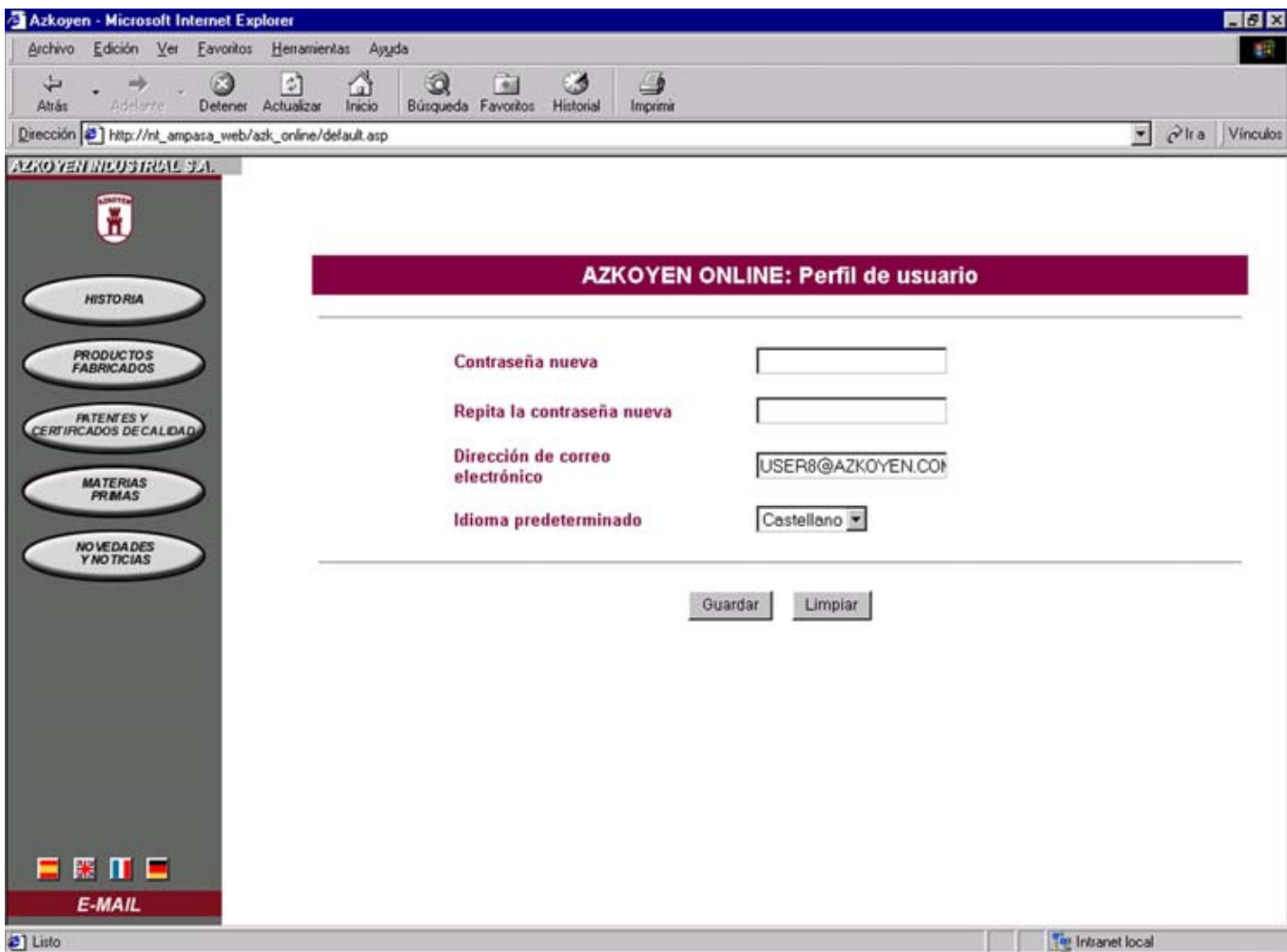
**Figure 12.** User Validation Screen.

In addition, this screen allows consulting the rest of the **AZKOYEN** web pages and the option, "Change Profile."

### 3.1.1 PROFILE CHANGE:

Users can change their profiles at any time, if they wish. This profile is determined by the following fields:

- ✓ New password.
- ✓ Confirm password.
- ✓ E-mail address
- ✓ Language.



**Figure 13.** User Profile Screen.

The "Save" option stores the changes that are made, reports any possible errors that may have occurred, and reports the cause of the problem:

- ✓ Login not valid.
- ✓ Incorrect password.
- ✓ The fields "New password" and "Repeat new password" contain different data.
- ✓ Other error.





## 3.2 REQUESTING FILES

Once the password has been validated, this screen is reached where the countries and the selectors are specified for which the user has permission to request reprogramming. The fields displayed are the following:

- ✓ List of selectors/model that that user is allowed to reprogram.
- ✓ List of countries where that user is authorised for reprogramming.

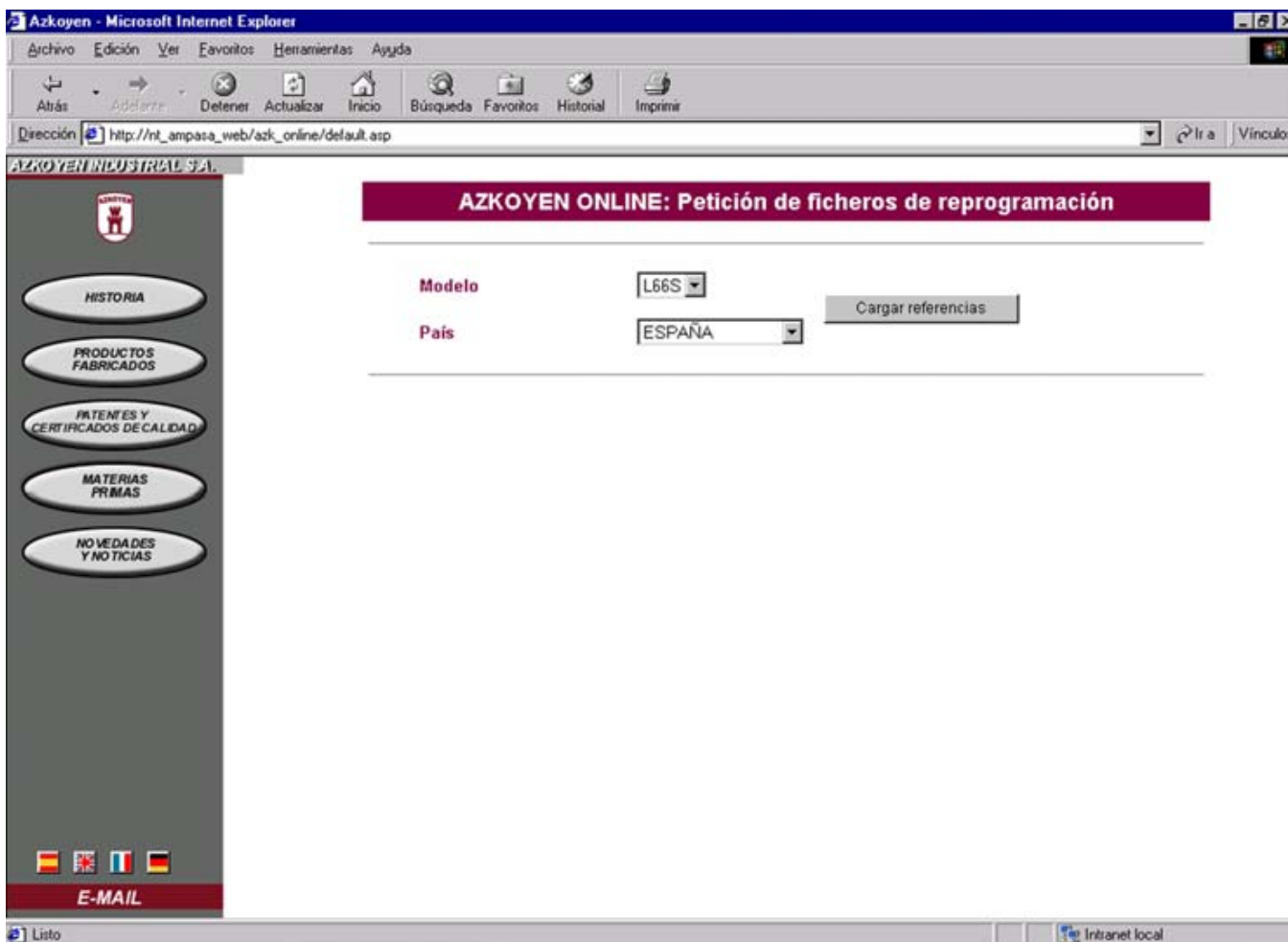
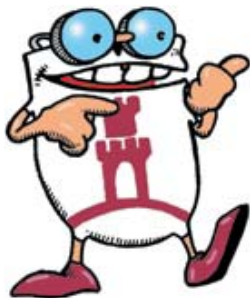


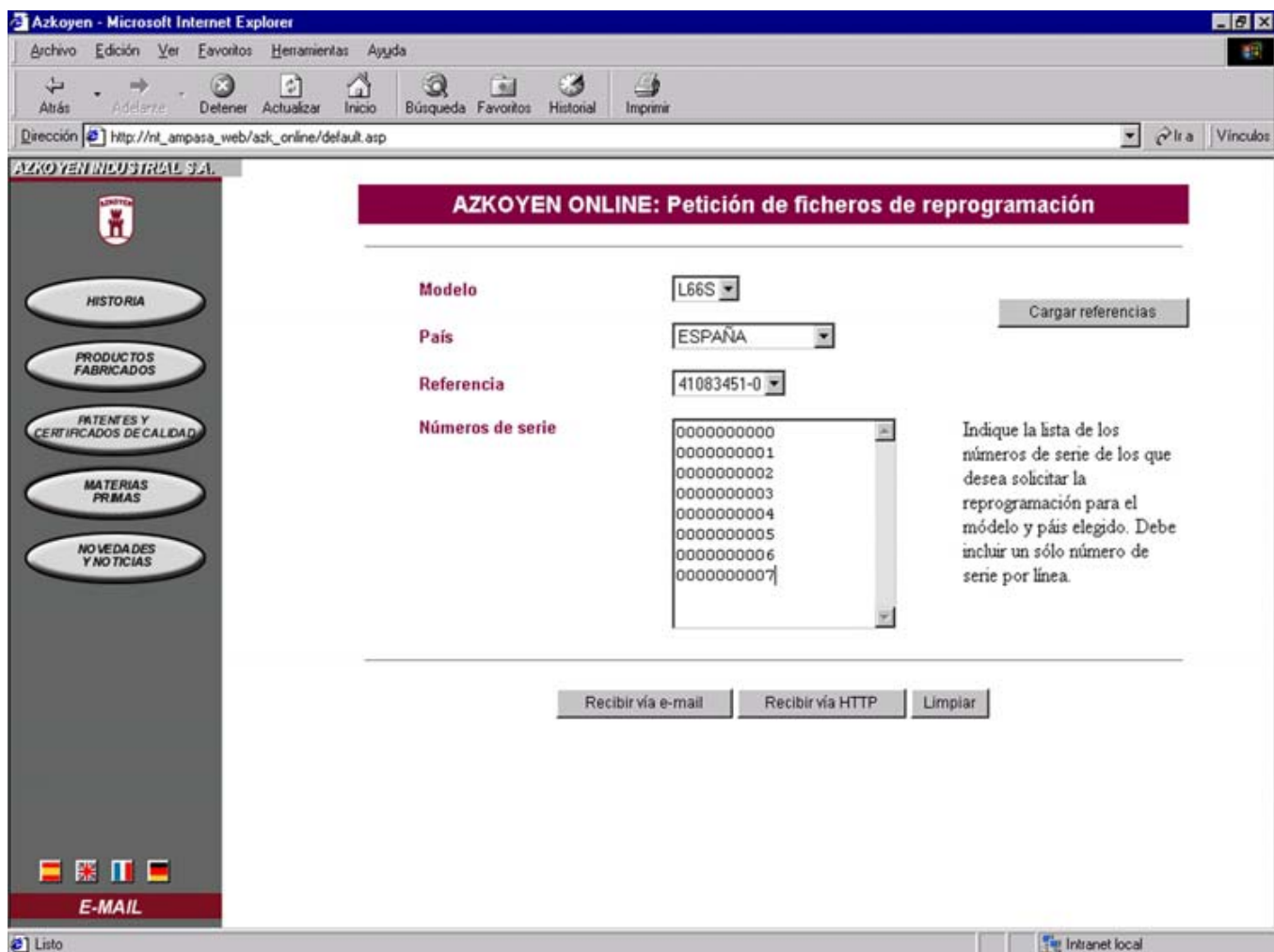
Figure 14. File Request Screen.



By clicking on "Accept", a page is loaded with the reference numbers related to that model and country. A text box is also displayed, which includes the serial numbers of the selectors to be reprogrammed. These numbers will be listed one per line.



FOR THIS PROCESS, IT IS A GOOD IDEA TO HAVE THE SERIAL NUMBERS IN AN UPDATED FILE THAT THE USER CAN USE IN ORDER TO COPY AND PASTE THEM INTO THE TEXT BOX.



**AZKOYEN ONLINE: Petición de ficheros de reprogramación**

Modelo: L66S

País: ESPAÑA

Referencia: 41083451-0

Números de serie:

```
0000000000
0000000001
0000000002
0000000003
0000000004
0000000005
0000000006
0000000007
```

Indique la lista de los números de serie de los que desea solicitar la reprogramación para el modelo y país elegido. Debe incluir un sólo número de serie por línea.

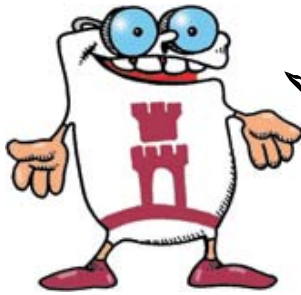
Recibir vía e-mail    Recibir vía HTTP    Limpiar

**Figure 15.** File Request Screen.

Once the form has been filled out, the options for receiving the file have to be chosen in order to make the request: either via HTTP (on-line) or via e-mail, as long as the user has permission for those two reception channels.



## 3.3 RECEPTION BY HTTP (ON-LINE):



THIS METHOD ONLY ALLOWS OBTAINING A LIMITED NUMBER OF FILES TO BE RECEIVED IN A REASONABLE AMOUNT OF TIME.

If this system has been chosen, and everything has gone correctly, the user is shown a screen with a hyperlink access to the file.

The screenshot shows the 'AZKOYEN ONLINE: Petición de ficheros de reprogramación' web page. The interface includes a left sidebar with navigation links: HISTORIA, PRODUCTOS FABRICADOS, PATENTES Y CERTIFICADOS DE CALIDAD, MATERIAS PRIMAS, and NOVEDADES Y NO TIJAS. The main content area has a title bar and a form with the following fields:

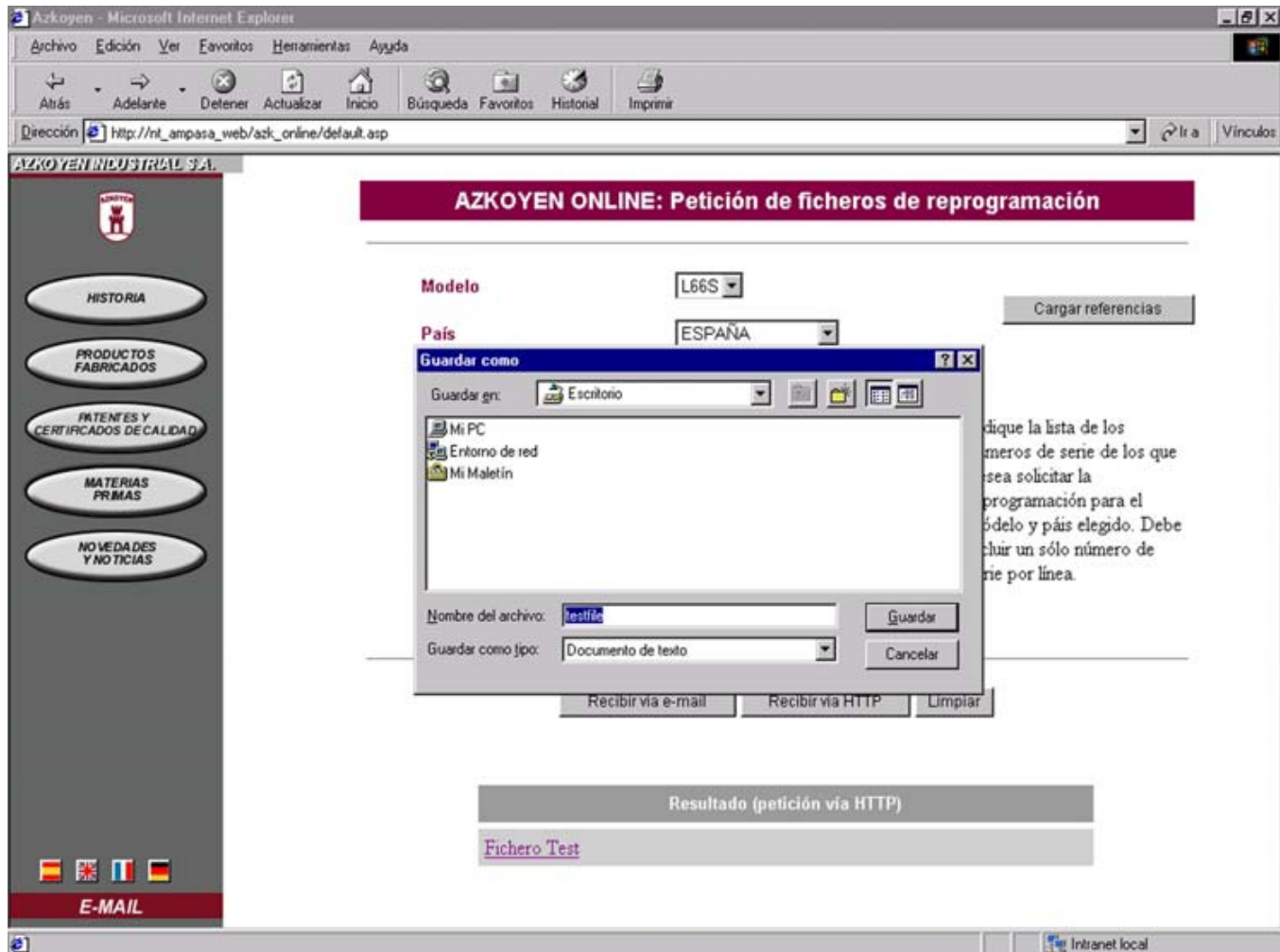
- Modelo:** L66S
- País:** ESPAÑA
- Referencia:** 41083451-0
- Números de serie:** A text area containing a list of 8 serial numbers from 0000000000 to 0000000007.

Buttons include 'Cargar referencias', 'Recibir vía e-mail', 'Recibir vía HTTP', and 'Limpiar'. A section titled 'Resultado (petición vía HTTP)' displays a hyperlink 'Fichero Test'. The footer shows flags for Spain, UK, France, and Germany, along with an 'E-MAIL' link.

Figure 16. On-line Reply Screen.

By clicking on this link, the file can be downloaded to the desired folder by using the "Save as" option.

Once saved, it can be used to reprogram the selector using the File Management Software.



**Figure 17.** Save-as Screen.

Once the process has been completed, more requests can be made from the same page.





## 3.4 RECEPTION BY E-MAIL

If this method is chosen, the application asks for the e-mail address where it should send the files, and by default it shows the address that it has configured in the user profile.

When requests are made, and if everything goes correctly, the screen displays a message indicating that the request has been saved. When the request is processed, an e-mail will be sent that has the attached files.

Figure 18. E-mail reception screen.

As in the preceding section, more requests can be made from this screen.



AZKOYEN







## 4. FILE MANAGEMENT SOFTWARE

### 4.1 SYSTEM REQUIREMENTS

The **File Management Software** (hereafter, **FMS**) for the **TL21** Programmer requires a PC with the following minimum configuration in order to work correctly:

- ✓ 133 MHz Pentium processor.
- ✓ 32 Mb of RAM memory.
- ✓ 8 Mb of space available on the hard drive.
- ✓ Windows operating system (W95, W98, WM, NT4, W2000).
- ✓ 1, 3-1/2" floppy disk drive.
- ✓ 1 CD ROM reader.
- ✓ 1 free serial port (Sub D9).

In addition, so that the **FMS** can operate with the **TL21** and the SmartMedia memory, the following elements are required:

- ✓ 1 TL21 Programmer.
- ✓ 1 SmartMedia memory module.
- ✓ 1 SmartMedia memory adapter installed and configured in the PC. There are three different kinds:
  - FlashPath adapter (supplied in the Basic Kit).
  - PCMCIA adapter.
  - USB adapter.
- ✓ 1 RS232 cable (supplied in the Basic Kit).



Figure 19

## 4.2 CD-ROM CONTENT. INSTALLATIONS.

The CD-ROM supplied in the Basic Kit offers the following content:

- ✓ **"Castellano" folder:** It contains the **Spanish** versions of the following:

**TL21\_SGF Folder:** It contains the File Management Software. In order to install it, click on the "setup.exe" file and follow the instructions given.

**Manual:** It contains the User Manual in PDF format.

**Acrobat:** It offers direct access to the Adobe web ([www.adobe.com](http://www.adobe.com)) in order to download the latest version of **Adobe Acrobat Reader** (Freeware) necessary in order to be able to see and print PDF files.

- ✓ **"Deucht" folder:** It contains the **German** versions of the following:

**TL21\_SGF Folder:** It contains the **File Management Software**. In order to install it, click on the "setup.exe" file and following the instructions given.

**Manual:** It contains the User Manual in the PDF format.

**Acrobat:** It offers direct access to the Adobe web ([www.adobe.com](http://www.adobe.com)) in order to download the latest version of **Adobe Acrobat Reader** (Freeware) necessary in order to be able to see and print PDF files.





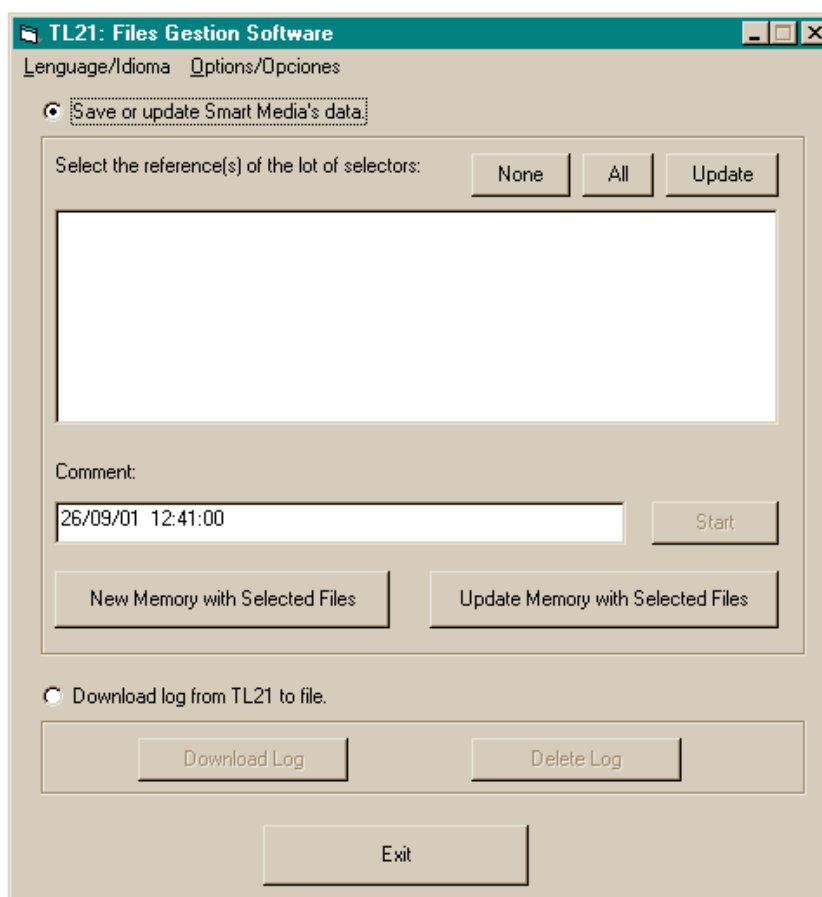
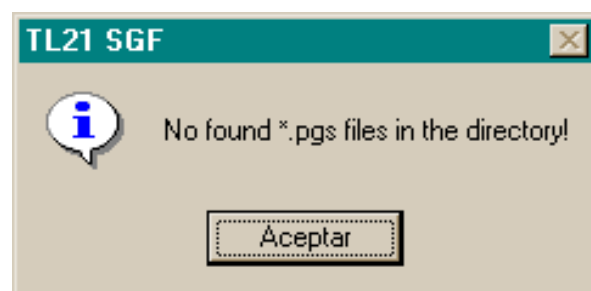
## 4.3 OPERATIONS WITH THE FMS

Once the **FMS** has been installed, the program is executed by double-clicking on its icon.

First, an informational screen is displayed that indicates the software version installed. Click on "OK" in order to continue executing the program.

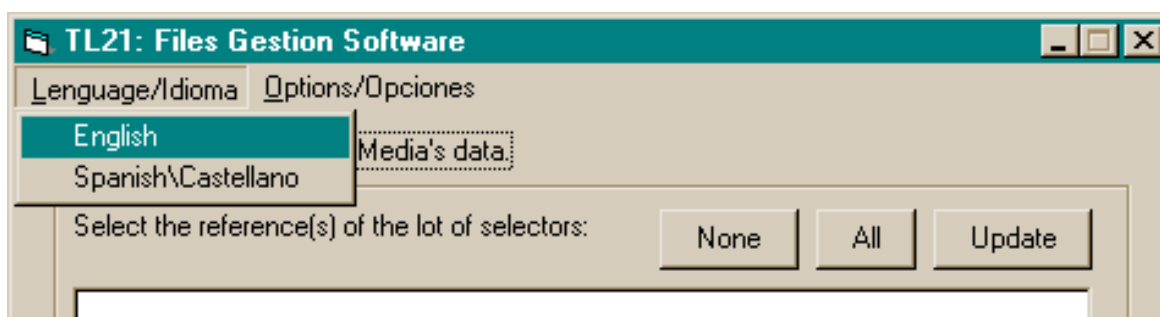


Next, an informational screen indicates if new files have been incorporated with programming for Selectors or Payout Units. By clicking on "Accept", the program continues to be executed, thereby displaying the main screen.



### 4.3.1 CONFIGURING THE LANGUAGE

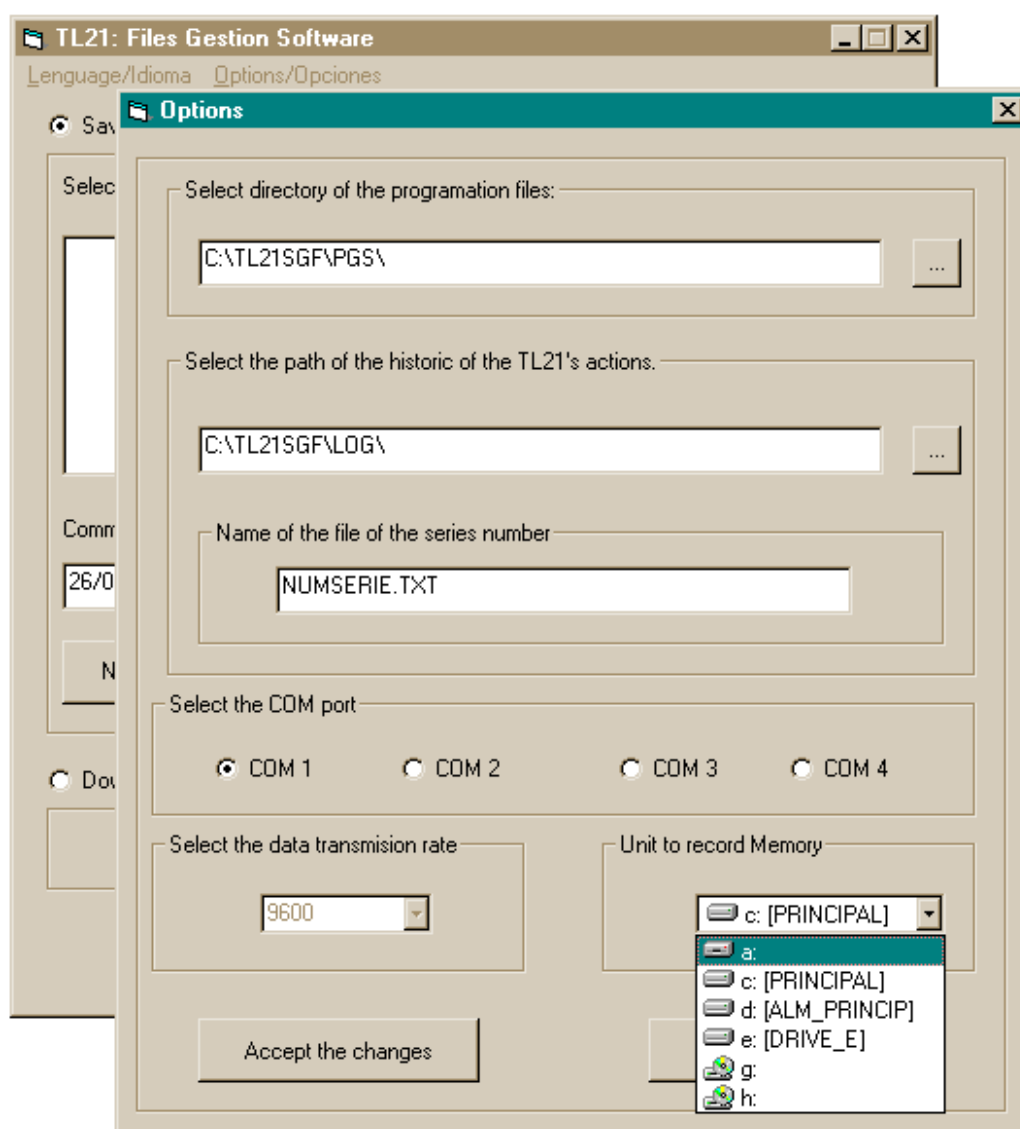
The language in which the **FMS** appears can be configured by using the "Language" option and selecting the desired language from the drop-down menu.



### 4.3.2 CONFIGURING OPTIONS

This command allows establishing the various configuration parameters of the **FMS**, such as the working files, the connection ports of the **TL21**, etc.

By clicking on "Options", a screen appears that shows the various aspects of the program configuration.



### **SELECT THE DIRECTORY FOR THE PROGRAMMING FILES**

In this box, select or write in the path where the files will be located that have the new Selector or Payout Unit programming.

By default, when the **FMS** is installed, the "PGS" folder is created, which is where all of the files should be stored that have the new programming received via the Web page or via e-mail, as explained in "**3. Obtaining Files via Internet (Web page and e-mail)**".

When the **FMS** is executed, it reads the files and organises them in order to subsequently dump them into the SmartMedia memory.

### **SELECT THE DIRECTORY FOR THE TL21 OPERATIONS LOG**

In this box, select or write in the path where the files are going to be stored that contain the log of the operations performed by the **TL21** on the Selectors and Payout Units.

By default, when the **FMS** is installed, the "LOG" file is created, which is the file where the historical record files are stored when data are dumped from the **TL21** to the PC.

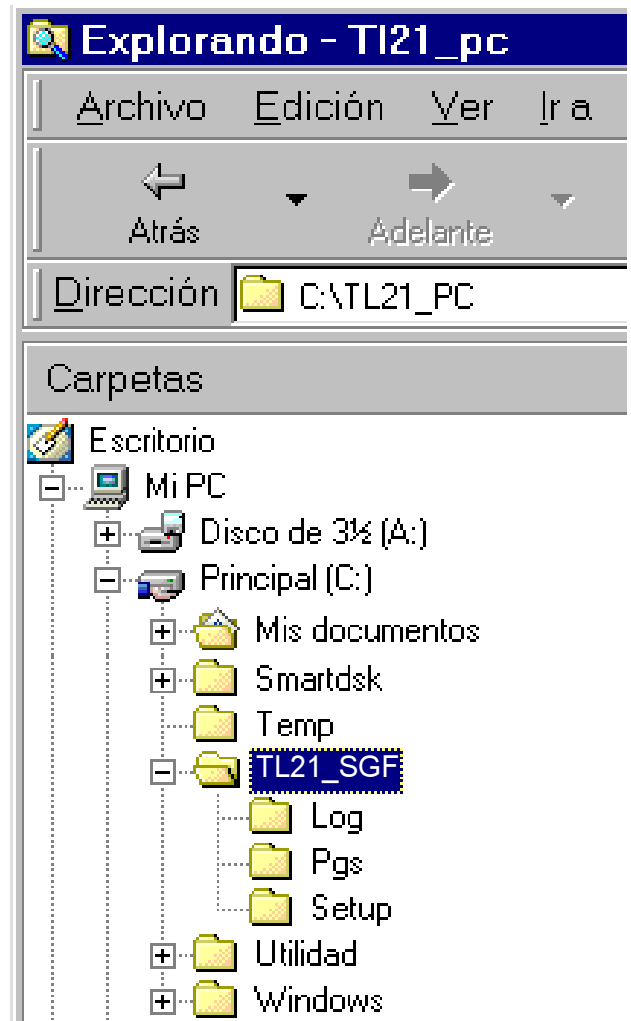
The downloaded file contains all of the Programming and Identification operations performed on the Selectors and Payout Units.

This file is the "text" type, and it can be subsequently used for controlling the store of Selectors and Payout Units. The information that it includes is the following: Serial number, type of selector, reference number, and the status of each Selector or Payout Unit identified or reprogrammed.

### **NAME OF THE SERIAL NUMBER FILE**

This is where the name is given to the file where the **TL21** will dump the data that have been stored during Selector or Payout Unit reprogramming.

When the log is dumped from the **TL21** to the PC, the data **are updated** together with the data already existing in the file configured here.



### **COM PORT SELECTION**

This is where serial port is selected from which the **TL21** connection is going to be made.

### **TRANSMISSION SPEED**

At this menu, the data transmission speed through the serial port is selected. It is currently set at 9600 bps.

### **MEMORY WRITING UNIT**

At this menu, select the location of the unit that contains the SmartMedia memory module, which is where the data will be dumped for operating with the **TL21**.

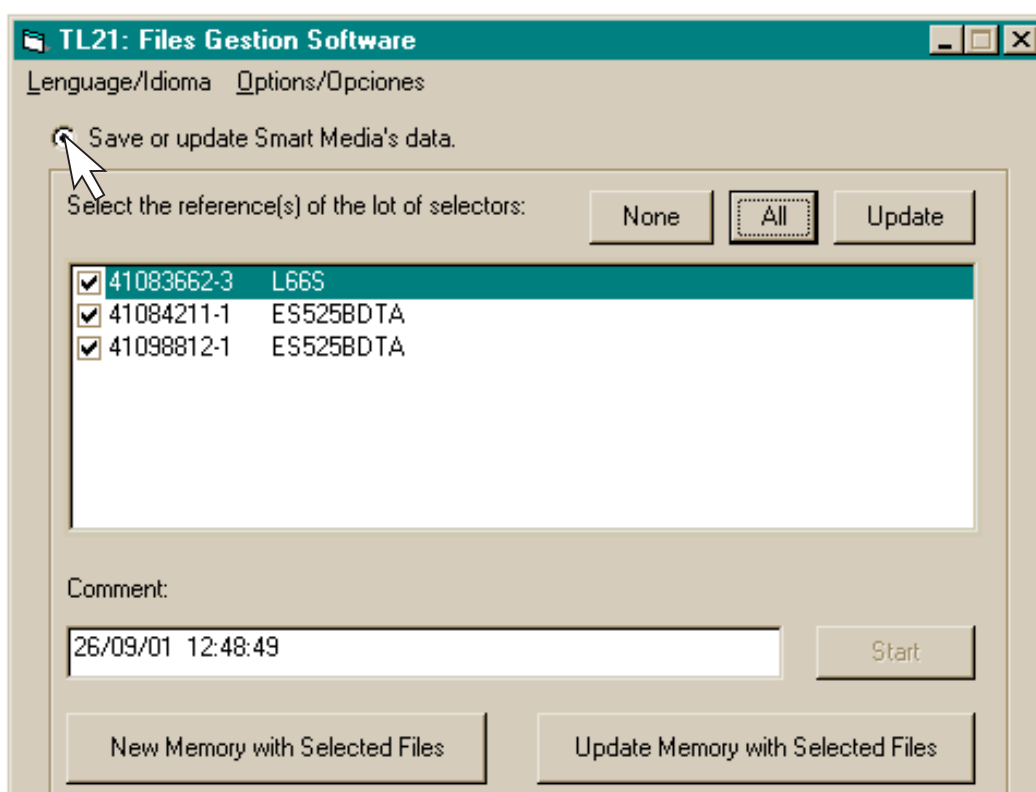
## **4.3.3 WRITING OR UPDATING DATA IN THE SMARTMEDIA MEMORY**

Once the files with the new programs have been obtained and copied to the "PGS" file, click on "Update" and the programs that contain these files are displayed.

By activating the "Write or update data in the SmartMedia memory» option, the reference numbers of the programs for the Selector or Payout Unit that are going to be copied to the said memory can be selected from the box on the left-hand side.

It displays three buttons with the following functions:

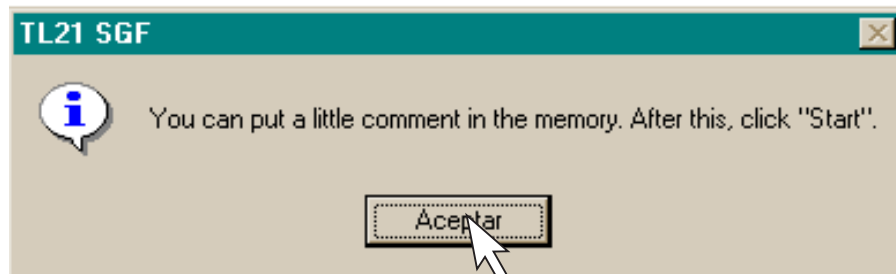
- ✓ **None:** It un-selects all of the reference numbers.
- ✓ **All:** It selects all of the reference numbers.
- ✓ **Update:** It verifies if new files have been added to the "PGS" file since the program was started, and it incorporates the new reference numbers if there are any.



Once the reference numbers have been selected, two alternatives are presented:

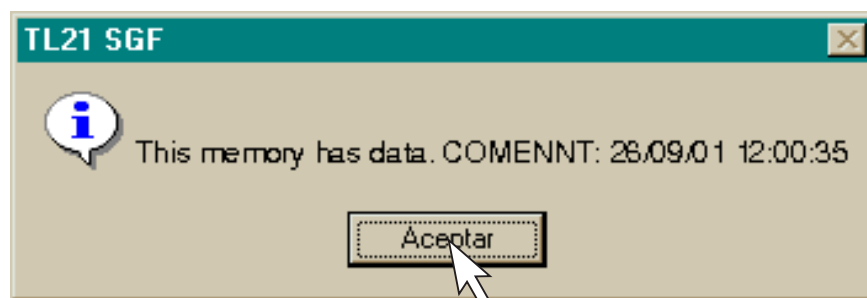
## **NEW MEMORY WITH SELECTED DATA**

When this button is pressed, it prepares the selected references in order to replace them with those that might be in the SmartMedia memory, and it displays the following message:

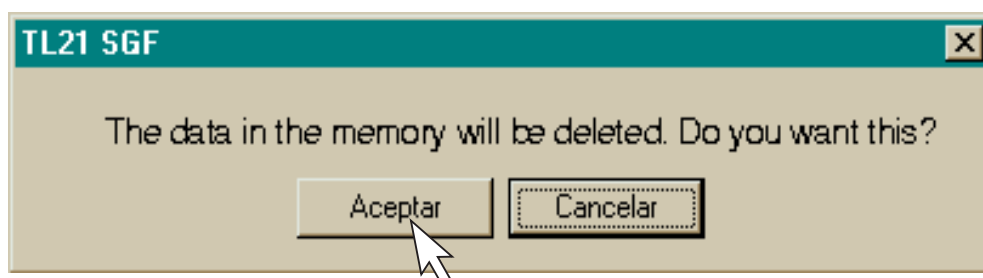


Click on "Accept", and a comment can be included under the "Comments" option if desired. By default, the date and current system time are displayed.

Click on "Start" in order to begin writing the data to the memory. If it already has data, an informational message is displayed, which also shows the comments written with this memory.



Click on "Accept" and the confirmation message is shown:



Click on "Cancel" so that the content of the SmartMedia memory is not erased. If "Accept" is not pressed again, and if the operation concludes successfully, a new message is displayed.

Click on "Accept", and then the SmartMedia memory will be ready to operate in the **TL21**.





### UPDATE MEMORY WITH THE SELECTED DATA

When this button is selected, it prepares the selected reference numbers in order to **add them** to those already existing in the SmartMedia memory, and it displays the following message:



Click on "Accept", and a comment can be added under the "Comments" option if desired. By default, the date and current system time are displayed. Click on "Start" in order to begin writing the data to the memory, and if the operation concludes successfully, it displays a new message.



Click on "Accept", and then the SmartMedia memory will be ready to operate in the **TL21**.

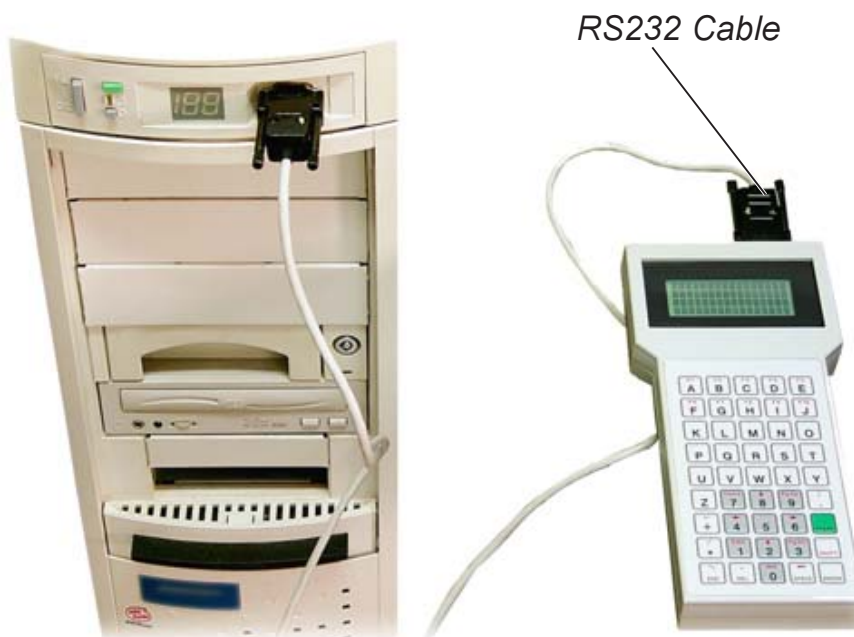




## 4.3.4 DOWNLOADING THE TL21 LOG TO A FILE

### ***TL21 CONNECTION TO THE PC***

In order to be able to download or erase the log, it is necessary to connect the TL21 to the PC using the RS232 cable. Then turn on the TL21 and select the option "Connect PC", as explained in **"2.3.1 Description of TL21 Programmer Functions."** The Programmer then waits to be connected to the PC and receive its instructions.



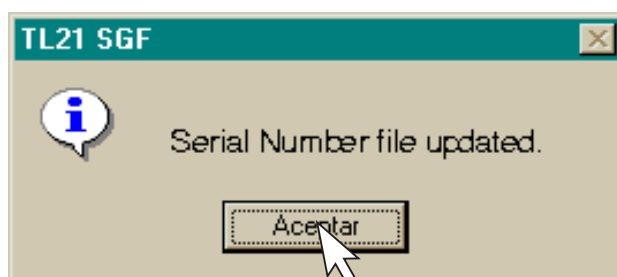
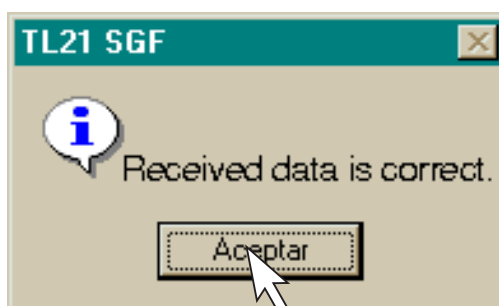
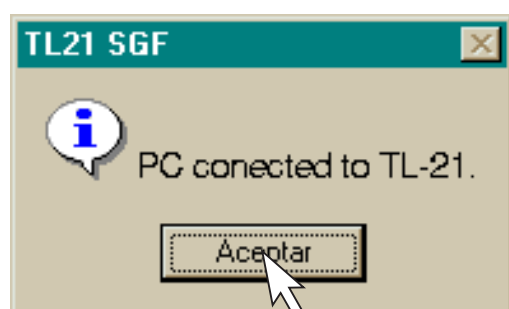
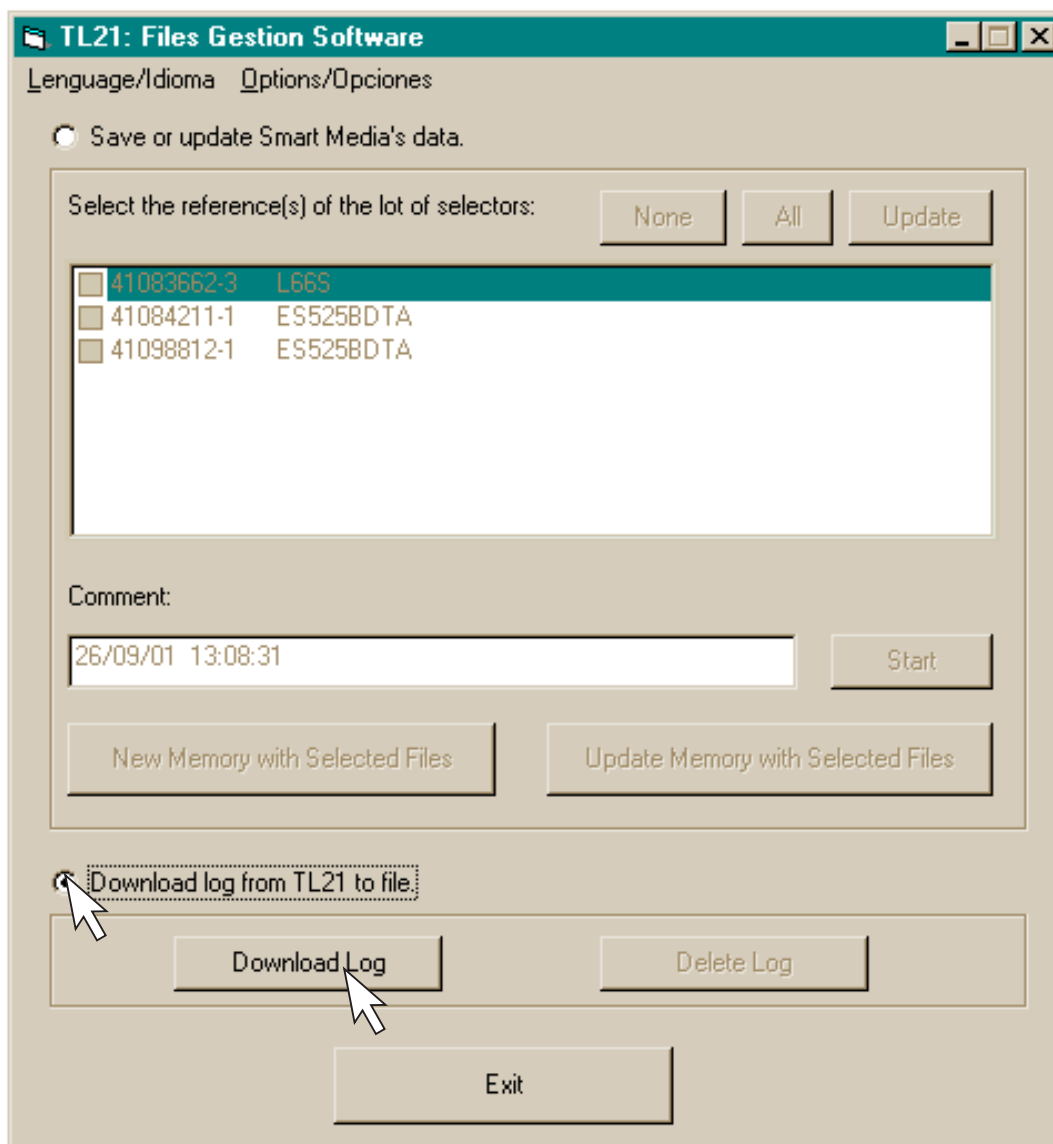
**Figure 20.** TL21 connected to PC



### ***DOWNLOAD LOG***

With this option, the log of the operations performed by the TL21 when it reprograms or identifies the Selectors and Payout Units can be downloaded to a text file. The information is added to the file that is configured in the "Options" menu. See **"4.3.2 Configuring Options."**

In order to proceed with the download, select the option, "Download TL21 Log to File", and then click on the "Download Log" button. A message is displayed, thereby confirming that the connection is correct. Click on "Accept" and two successive messages are displayed: "Data received correctly" and "Serial number file updated."



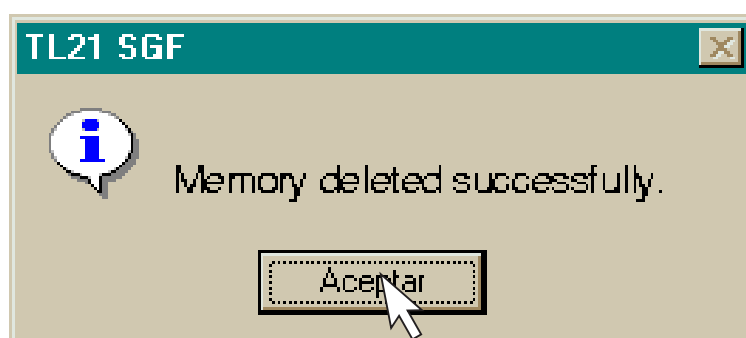
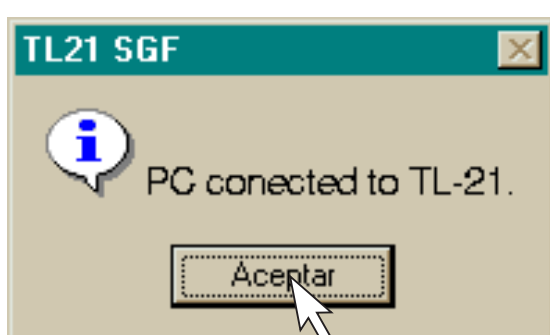
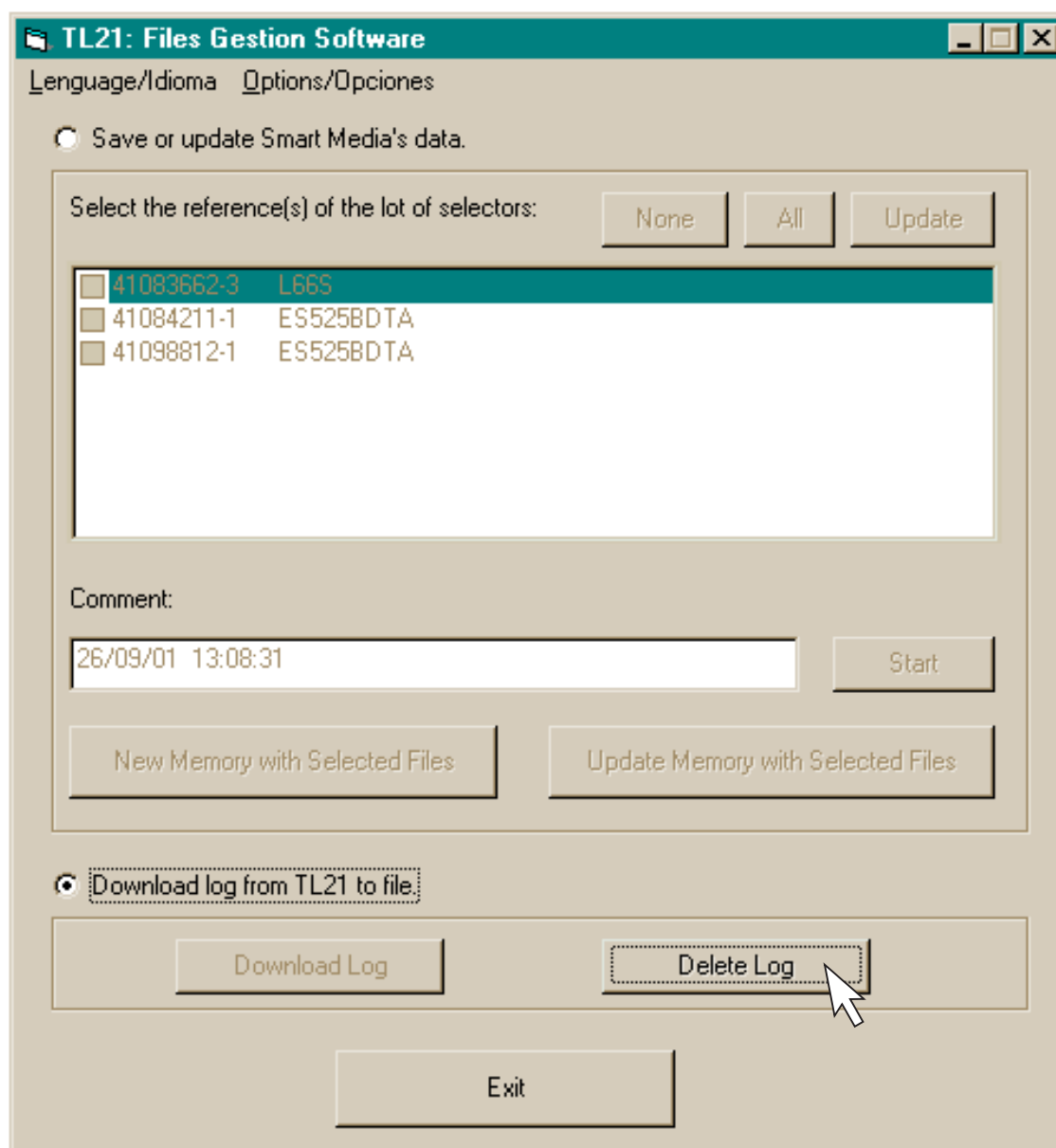


## **ERASE LOG**

This option is only operational if the log has been downloaded to the PC beforehand.

With this option, the Log information stored in the **TL21** can be erased, given that its storage capacity is about 2000 operations.

In order to proceed to erase the Log, click on the button, "Erase Log." A message appears, thereby confirming that the connection is correct. Click on "Accept" and the message, "Memory erased successfully" is displayed.



### 4.3.5 FORMATTING THE SMARTMEDIA MEMORY WITH THE FLASHPATH ADAPTER

The **TL21** is capable of reading the SmartMedia memory cards that have from 4 up to 128 Megabytes of capacity and which cards **have been previously formatted with the FlashPath adapter**.

Once they have been correctly formatted, the cards can be written to with the FlashPath itself or with another kind of adapter existing on the market (USB, PCMCIA, etc.), but the cards must always have the FlashPath format in order to be able to be read by the **TL21**.

If a SmartMedia card is available that has been formatted with an adapter other than the FlashPath and it is going to be used with the **TL21**, it should be reformatted with FlashPath before writing data using the File Management Software, otherwise these data will not be able to be read by the **TL21**.

Likewise, even though the cards available on the market already come formatted, it is recommendable to always format them with FlashPath before writing any data to the same.

In order to format SmartMedia with the FlashPath adapter, follow the steps below:

- 1 Insert the memory module to be formatted into the FlashPath adapter and then insert the adapter into the 3-1/2" floppy drive of the PC.



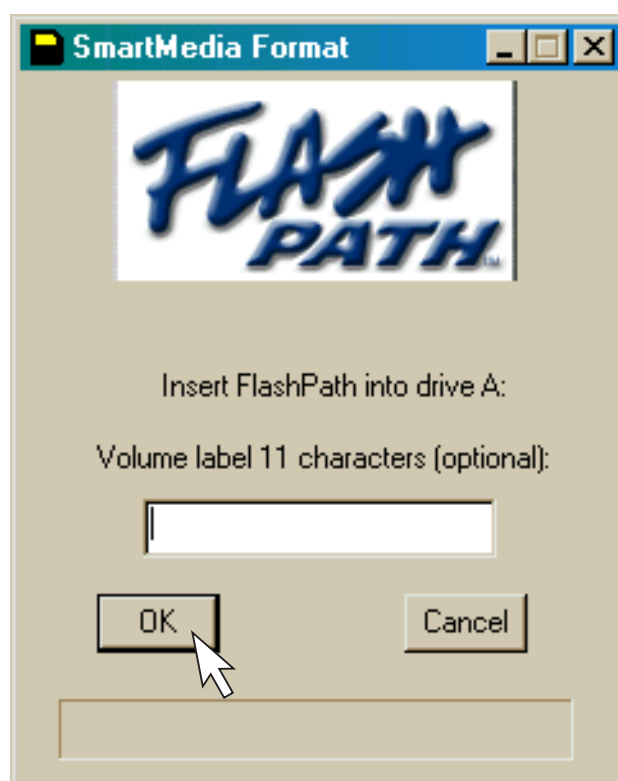
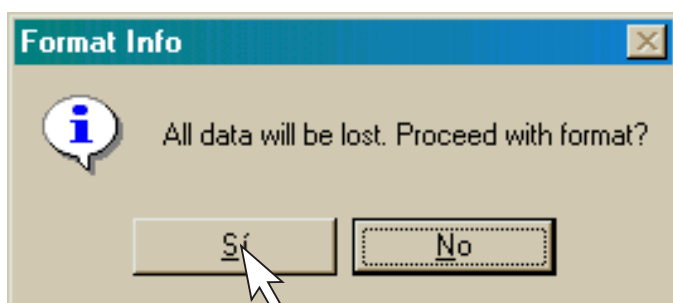
**Figure 21.** Adapter with SmartMedia Card

- 2 Select the "SmartMedia Format" icon from the "Programs" folder of Windows in order to execute the formatting utility for the SmartMedia memory.

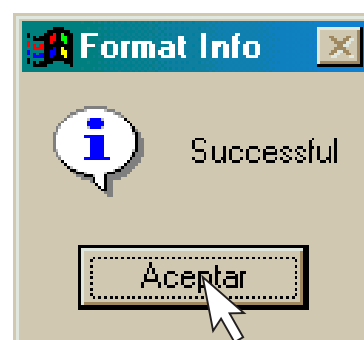
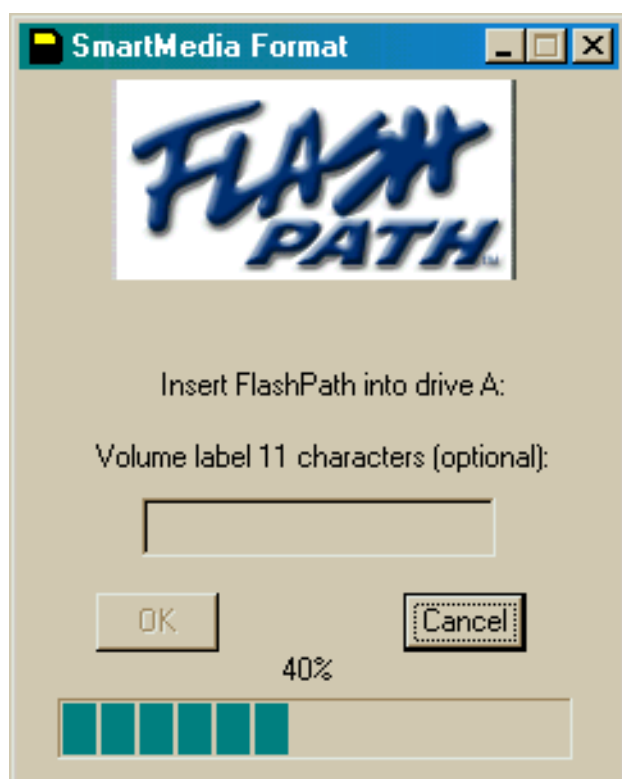




- 3 A screen is displayed in where the disk label can be written if desired. By clicking on "CANCEL", the process is cancelled. Click on "OK" to continue.
- 4 A new confirmation screen is displayed. Click on "Yes" in order to confirm and begin formatting. Click on "No" to cancel the process.



- 5 After formatting is completed, a confirmation message is displayed. Click on "Accept" and the SmartMedia memory module is then ready to operate with the TL21.



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