

INSTALLATION MANUAL

CDP70 DIGITAL DOORKEEPER UNIT

Installation requirements	pag. 3
Programming	pag. 9

COD. 01217545310



INSTALLATION REQUIREMENTS:

I 1) The CPD70 unit is to be installed indoor, whereas the ADT70 power - supply must be placed as close as possible to the unit; for the connection use cables of 1 mm up to 50 mt.

I 2) All cables coming from the system will have to be plugged into the connecting link supplied which is joined to the CDP70 unit via scart plug.

I 3) Before the telephone exchange unit is working, please proceed as follows:

- power the CDP70 unit
- read this manual's section dedicated to the programming
- input names and codes of the users to be processed
- set correctly the programming jumpers to adapt the CDP70 functioning to the system's features
- make sure that the operator using the CDP70 unit reads the "Operator's guide" thoroughly in order to know how to use it properly

I 4) Follow strictly the table below describing the sections of wires in relation to distances.

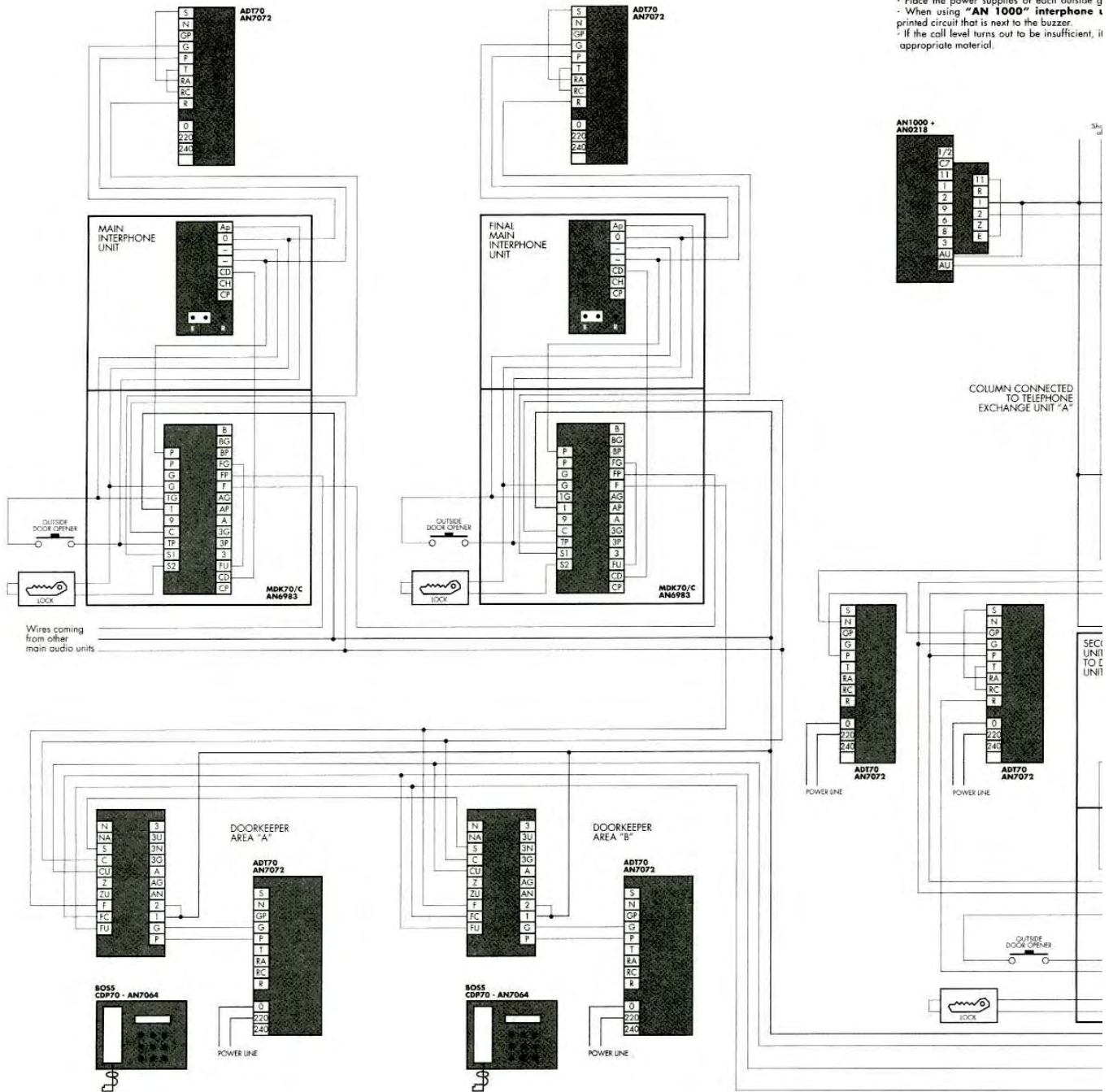
F F FC FU	Z Z ZU	C C CU	S	1	3 3 3G 3N 3U	P G	Distance between CDP 70 e MDK 70
0,5 mm ²			1		1,5 mm ²	0,5 mm ²	0 - 25 mm.
1 mm ²			1		1,5 mm ²	1 mm ²	25 - 50 mm.
1,5 mm ²			/		2,5 mm ²	2 mm ²	50 - 100 mm.

I 5) The following 3 system diagrams illustrate the basic installations; for personalised installations please refer to Bitron Customer Service.

I 6) Cables and diskettes supplied with the unit must be kept even if you do not use external means of programming; you might need them in future.

MAIN MDK/C + SECONDARY MDK/C ON 2 CDP/70 DIGITAL DOORKEEPER UNITS
17915730

**MAIN MDK/C + SECONDARY MDK/C ON 2 CDP 70 DIGITAL DOORKEEPER UNITS
17915730**



- Notes:**
- The cross sections of cables advised in this to **only one** unit at a time.
 - Place the power supplies of each outside g
 - When using "AN 1000" interphone i
 - If the call level turns out to be insufficient, it

COLUMN CONNECTED TO TELEPHONE EXCHANGE UNIT "A"

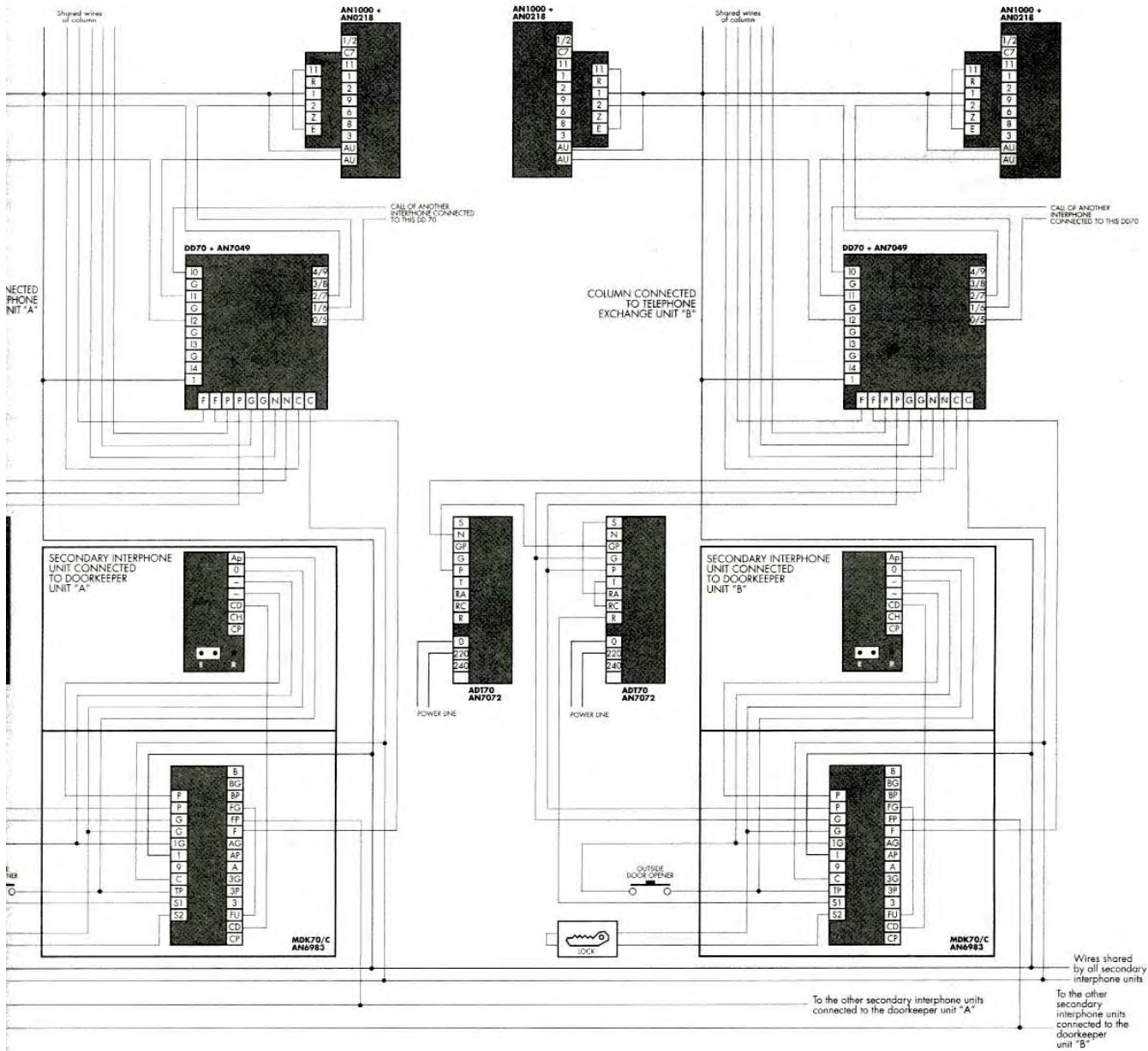
SECC UNIT TO E UNIT

used in this table are valid for the calling of each outside group next to the group itself. **Interphone units**, cut the jumper on the buzzer.

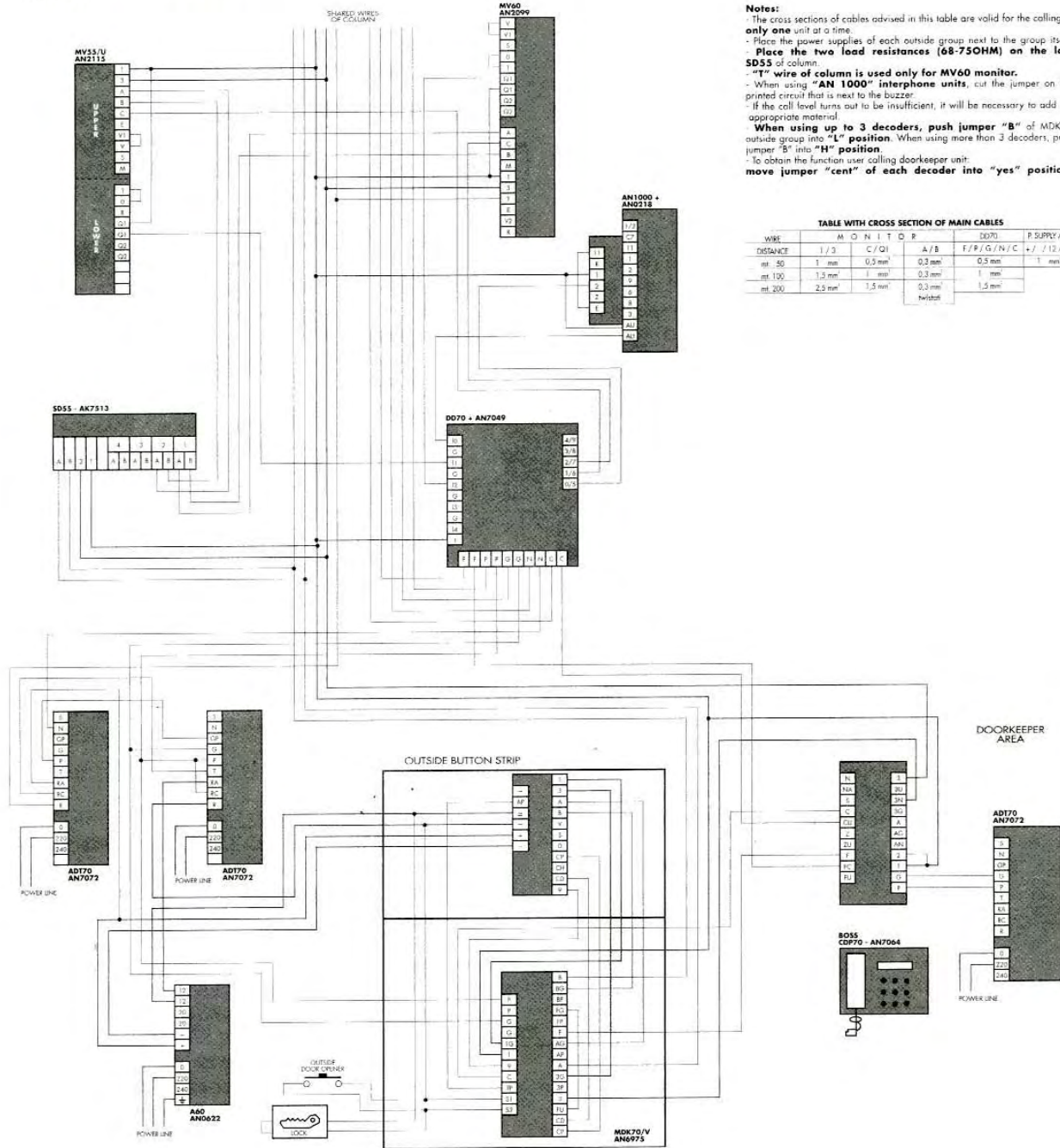
- When using up to 3 decoders, push jumper "B" of MDK/C outside group into "L" position. When using more than 3 decoders, push jumper "B" into "H" position.
- To obtain the function user calling doorkeeper unit: **move jumper "cent" of each decoder into "yes" position.**
- In standard functioning each doorkeeper unit is generally connected only to the users of the provided columns
- Main digital audio gate = max 6
- Secondary digital audio gate = max 10

TABLE WITH CROSS SECTION OF MAIN CABLES

WIRE	INTERPHONE UNIT	DD70	OUTSIDE GROUP
DISTANCE	1	2 / Au	F / F / G / N / C
est. 50	1 mm	0,5 mm	0,5 mm
est. 100	1,5 mm	1 mm	1 mm
est. 200	2,5 mm	1,5 mm	1,5 mm



**CDP 70 DIGITAL DOORKEEPER UNIT
1 MDK VIDEO ON 1 COLUMN (5 WIRES)
17591703**



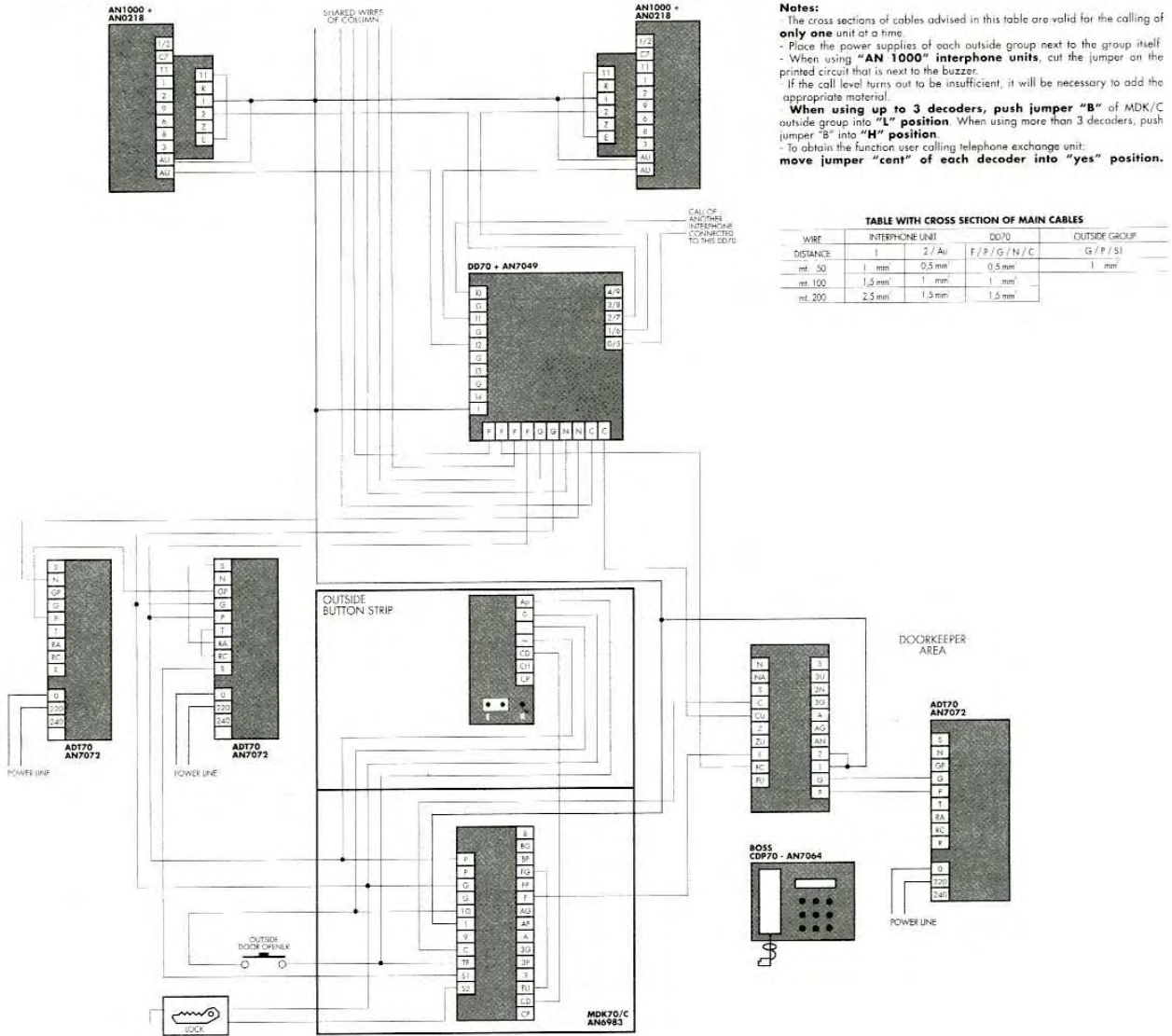
Notes:

- The cross sections of cables advised in this table are valid for the calling of **only one** unit at a time.
- Place the power supplies of each outside group next to the group itself.
- **Place the two load resistances (68-750HM) on the last SD55 of column.**
- **"T" wire of column is used only for MV60 monitor.**
- When using **"AN 1000"** interphone units, cut the jumper on the printed circuit that is next to the buzzer.
- If the coil level turns out to be insufficient, it will be necessary to add the appropriate material.
- When using up to 3 decoders, push jumper "B" of MDK/V outside group into "L" position. When using more than 3 decoders, push jumper "B" into "H" position.**
- To obtain the function user calling doorkeeper unit: **move jumper "cent" of each decoder into "yes" position.**

TABLE WITH CROSS SECTION OF MAIN CABLES

WIRE	M	O	N	I	D	R	DD70	P. SUPPLY A60
DISTANCE	1/3	C/Q1	A/B	F/P/J	G/N/C	+ / -	/ 12 / 12	
mt. 50	1 mm	0,5 mm	0,3 mm	0,5 mm	1 mm			1 mm
mt. 100	1,5 mm	1 mm	0,3 mm	1 mm				
mt. 200	2,5 mm	1,5 mm	0,3 mm	1,5 mm				

CDP 70 DIGITAL DOORKEEPER UNIT 1 MDK 70 UNIT WITH INTERPHONE ON 1 COLUMN 17915720



A) PROGRAMMING OF CDP70 UNIT

The programming section is divided as follows:

A 1) JUMPER SETTING

A 2) PROGRAMMING WITH CDP70 KEYPAD

A 3) PROGRAMMING WITH ANOTHER CDP70 UNIT

A 4) PROGRAMMING WITH MINITEL

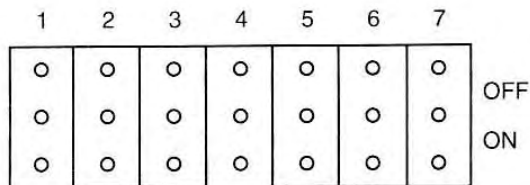
A 5) PROGRAMMING WITH A PERSONAL COMPUTER

Please note that programming with personal computer or minitel can be carried out in remote mode via modem.

A 1) JUMPER SETTING

Reach the jumpers by lifting up the plastic cover on the right side of the CDP70 display

A 1.1) Jumper 1 is used to preset the CDP70 unit into programming or into service mode.



- 1) Programming
- 2) Direct calls
- 3) single/pair CDP/70
- 4) Language 1
- 5) Language 2
- 6) Unit name
- 7) Esc. Alarm

By pushing the jumper into *OFF*, CDP70 will be in service mode; if the jumper is pushed into *ON*, the unit will be in programming mode. As for programming please refer to chapter A2 "Programming with CDP70 keypad".

A 1.2) Jumper 2 is used to preset the telephone exchange, when in "day" mode, to ignore or not the incoming calls directed to an inside user. When the jumper is *ON* the unit will ignore all incoming calls as described in paragraph B 2.3). When the jumper is *OFF* the unit will carry out the usual "day" service and will intercept all calls as described in chapter B 2.1). The above function is not available when the system is equipped with 2 telephone exchanges working in pair, therefore move the jumper into *OFF* position.

A 1.3) Jumper 3 is used to determine whether the CDP70 unit has to manage the whole system or there is another CDP70 unit available; so that the first unit will handle just a part of the system.

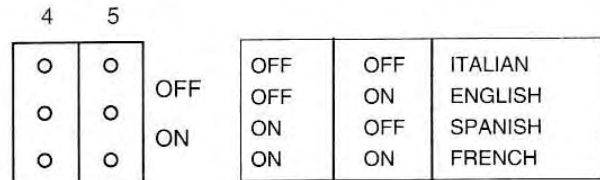
With the jumper *OFF* only a part of the system is processed (the cut-out mode is activated and it is necessary to program the users' groups to be handled; see paragraph A2) because there are two CDP70 units working. When the jumper is *ON* all the installation's users will be processed because there is just one CDP70 unit and the cut-out button is

not activated.

A 1.4) Jumpers 4 and 5 are used to select the language of all messages that will appear on the display and the minitel, when connected.

A 1.5) Jumper 6 provides a digital code to the CDP70 unit: the available codes are two: 0000 and 0001.

By setting the jumper into *ON* the code 0001 is selected; vice versa, when into *OFF* position, the code 0000 is selected.



It is extremely important that systems with two CDP70 units have two different codes.

That is because:

- it is possible to memorize together names and codes of the operators in the external button strip so that, when the CDP70 unit is into "night" mode, by selecting the specific name or digiting the code, the telephone exchange will ring like a normal interphone system.

A 1.6) Jumper 7 enables CDP for alarms reception (only in systems equipped with a DD71 decoder).

The alarm can be received with the jumper on *OFF* position.

The alarm is ignored with the jumper on *ON* position (with systems that have a DD70 decoder with no alarm mode set the jumper into *ON* position).

A 2) PROGRAMMING WITH CDP70 KEYPAD

This section is about how to log in users' names and their matching calling codes into CDP70 dialing index.

It is also possible to program which users' groups will be handled by the CDP70 unit (gate).

CDP70 can memorize up to 400 users' names.

The users exceeding the maximum capacity of the dialing index can also be processed, but it is necessary to know their calling code.

A 2.1) Entering OPTIONS MENU (with a jumper)

- Move jumper 1 into *ON* position
- On the display you'll see:

1 - INDEX	2 - GATE
3 - TX/RX	4 - EXIT

A 2.2) Entering OPTIONS MENU (with a password)

- Press the X button for at least 7 seconds; release it at beep sound.
- *PASSWORD* will be displayed.
- Digit the *PASSWORD* within 15 seconds.
- Bitron set the *PASSWORD* 77777 and it can be changed..
- If no new passwords have yet been programmed, then digit 77777.
- After pressing the final 7 the main menu will be displaying:

1 - INDEX	2 - GATE
3 - TX/RX	4 - EXIT

A 2.3) Inputting names in the dialing index

- Select option 1- *INDEX* by pressing key n.1
- after a few seconds the display will show:

BITRON VIDEO
----- 1000

The above name has already been set by the manufacturer; to delete it proceed as follows:

- press key 1 until you get a blank space instead of the letter B of BITRON. During this operation, a series of letters, numbers and symbols will be displayed instead of letter B.

A 2.3.1) Let's write a new name, for es. MARIO ROSSI 1001

- press button ↓ to find a blank space on the display

----- 0000

- press key 1 to scroll the alphabet forward, or key 2 to scroll it backwards: keeping them pressed allows you to quickly scroll up to the letter M

M-----
----- 0000

- press key 5 to move the cursor one character forward.
- in case of a a typing mistake, press key 4 to move the cursor one character backwards.

M-----
----- 0000

- press key 1 or 2 so that letter A appears

MA-----
----- 0000

- press key 5 to move the cursor forward

MA-----
----- 0000

- Proceed in the same way until the whole name is displayed

MARIO_ROSSI-----

- press button ← to set the calling code of the user Mario Rossi, the cursor will flash on thousands location.

MARIO_ROSSI-----
----- 0000

- type in no. 1000

A 2.3.2) ADDING NAMES TO THE DIALING INDEX

- press button ↓ to find an empty location , the display shows

----- 0000

- repeat the procedure starting from A 2.3.1

A 2.3.3) DELETING NAMES FROM THE DIALING INDEX

After entering the dialing index programming, as shown in paragraph A 2.3:

- Select the name to be deleted by pressing buttons ↓ or ↑
- with key 1 or 2 replace the first letter of the name with a blank space, the unit will automatically delete the name when exiting the programming mode (see paragraph A 2.3.5).

A 2.3.4) MODIFYING DIALING INDEX NAMES OR CODES

Enter the dialing index programming, as shown in paragraph A 2.3, then

- Select the name to be changed by using buttons ↓ or ↑
- By using key 4 or 5 move the cursor to the letter to be changed, or move it to the digital code using button ←
- Modify the letter with key 1 or 2 or the number directly with the numerical keys.

A 2.3.5) EXIT FROM THE DIALING INDEX PROGRAMMING AND RETURN TO MAIN MENU

- Press X button, the display will ask you to wait and after a few seconds (max. 80 seconds) you will read:

1 - INDEX	2 - GATE
3 - TX/RX	4 - EXIT

IMPORTANT When setting names in the dialing index, remember not to leave any blank spaces at the very beginning or it will cause the deletion of the recording.

A 2.3.6) INPUTTING USERS' GROUPS TO BE PROCESSED (GATE)

After following the instructions in the previous paragraph , the display will show the main menu.

The option 2 - GATE can be used to select the users' groups to be processed by the CDP70 unit.

The users are divided in groups of thousands, which are users with calling code from 0 to 999, from 1000 to 1999, etc.

IMPORTANT If CDP70 is preset as the only unit of the system (see paragraph A 1.3 - jumper 3 ON) it is necessary to input all the gates from 0 to 9.

- Press key 2 to set the users' groups (gate), the display shows:

SCALE: _

- Select the groups handled (gate) by pressing the numerical keys; in case of a mistake just type over it; the X button will delete the digit highlighted by the cursor.
- When programming is over, press button ← to return to main menu.

A 2.4) Exit from programming and store input and/or modified (with jumper) data.

This procedure can only be used when CDP70 is set on programming via jumper, otherwise (unit set on programming via password) use the procedure A 2.6 described later on

- Move jumper 1 into OFF position
- Moving to "Press and look for name ↓ or ↑", the data is memorized and CDP70 is now ready to work.

A 2.5) Changing the password

- When the main menu is displayed, press the X button for at least 7 seconds and release it at the beep sound.
- the display will show the old password

- Now digit the new password using the numerical keys, in case of a mistake, just type the right number over the wrong one.
- When the procedure is over, press \leftarrow to confirm the new password
- Move to "Press and look for name \downarrow or \uparrow "; the CDP70 unit is now ready to work.

A 2.6) Exit from programming of input and/or stored (with password) data

This procedure can only be used when CDP70 is set on programming via password; otherwise (jumper pushed in) use the procedure of A 2.4 described previously.

After returning to main menu from one of the various programming functions, the display will indicate:

1 - INDEX	2 - GATE
3 - TX/RX	4 - EXIT

- press key 4 to exit; the new or modified data will be stored, the display will show "Press and look for name \downarrow or \uparrow " and CDP70 will be ready to work.

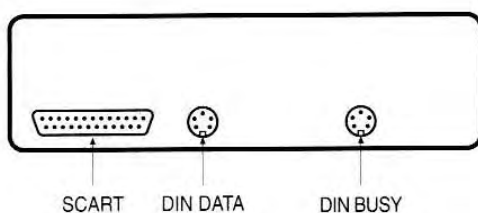
A 3) PROGRAMMING WITH ANOTHER CDP70 UNIT

This option simplifies the programming operations. If you have to program a second CDP70 unit after programming the first one you can use this option to transfer all data from the first unit to the second one without having to repeat all the operations described in paragraphs A 2.x.x.).

WARNING The programming for the management of users' groups (see paragraph A 2.3.6.) will also be dumped in the second CDP70 unit. Therefore if the two units have to deal with different groups, it is necessary to repeat, during the normal functioning, the management program. Set CDP70 into programming mode via jumper (paragraph A 2.1) or via password (paragraph A 2.2) and then follow the instructions as shown in paragraph A.2.3.6.

A 3.1) Hardware connection

- Connect the CDP70 unit to the power supply: you just have to connect the P terminal of the connecting link to the + terminal of a 12 V dc. power supply and the G terminal of the connecting link to the - terminal of the above mentioned power supply and then push the scart plug into the appropriate scart connector placed at the back of the unit. It is also possible to simply connect CDP70 to the system it will have to work with.
- Connect the second CDP70 to the first one with the cable supplied. Use the cable with 8-pole DIN plugs on both ends; the plugs to be used are the 8-pole DIN next to the scart plug, on the DATA port (you will find the indication on the base bottom of CDP70).



A 3.2) Software connection

A 3.2.1) PRESETTING THE FIRST CDP70 TO TRANSMISSION

- Enter the programming mode with the jumper (paragraph A 2.1) or with the password (paragraph A 2.2)
- The main menu will appear on the screen.
- Select the TX/RX option by pressing key 3.
- The display will show 1-MASTER 2-SLAVE.
- Select the MASTER option by pressing key 1.
- The display will show "TX! STAND BY"

A 3.2.2) PRESETTING THE SECOND CDP70 UNIT TO RECEIVE DATA

- Enter programming mode with the jumper (paragraph A 2.1) or with the password (paragraph A 2.2)
- The main menu will appear on the display
- Select TX/RX option by pressing key 3
- The display will show 1-MASTER 2-SLAVE
- Select SLAVE option by pressing key 2
- The display will show "RX STAND BY" and then "RX ACTIVE ..."; in the lower part of the display a growing number from 000 to 400 will appear while the data is gradually displayed. At this moment the display of the transmitting unit is indicating "TX ACTIVE..." (this operation takes 150")

A 3.2.3) END OF DATA TRANSMISSION

- Once the data have been completely dumped, the display of the receiving CDP70 unit will show "DATA OK!" and the transmitting one "TRANSMISS. END"
- If the display shows "COMMUNICATION ERROR" press X button on both units and repeat the whole procedure starting from A 3.2.1.

A 3.2.4) DISCONNECTING THE TWO CDP70 UNITS

- Once the data has been correctly dumped, proceed as follows to disconnect the two CDP70 units:
- Press button \leftarrow to return to main menu
- Press key 4 if you used the password; if you used the jumper, then set jumper 1 on OFF (these operations have to be carried out on both CDP70 units)
- Disconnect the DIN cable between the two units

A 4) PROGRAMMING WITH MINITEL

A 4.1) Programming with a local minitel

A 4.1.1) HARDWARE CONNECTION

- Power the CDP70 unit by connecting it via the scart plug to the system that it will use, or by connecting it to a 12 V dc power supply with the positive pole on the P terminal of the connecting link and the negative pole on the G terminal of the connecting link and by pushing the scart plug into the appropriate socket.
- Connect the CDP70 unit to the minitel with the DIN cable supplied; use the cable with a 5-pole-plug on one end and an 8-pole-plug on the other end.
- Push the 5 pole-plug into the DIN socket of the minitel
- Push the 8 pole-plug into the DIN socket next to the CDP70 scart plug (DATA)

A 4.1.2) PRESETTING MINITEL

- Switch on minitel and wait for letter F to appear on the screen

- Keep FNCT button pressed and then press button T
- Release the previous buttons and press button E
- Keep FNCT button pressed and then press button C
- Release the previous buttons and press button E
- Now minitel is ready to communicate with the CDP70 unit

A 4.1.3) COMMUNICATING WITH THE CDP70 UNIT

- Digit the word LOCALE and then press button ↵
- PASSWORD will appear on the screen
- Write the correct password within 20 seconds; if you are programming the unit for the first time, note that the default password, already set by Bitron, is 77777
- After digiting the password press button ↵
- The following menu will appear on minitel

- 1 - INDEX PROGRAMMING
- 2 - GATE PROGRAMMING
- 3 - PASSWORD
- 4 - EXIT

If you logged in the wrong password, you will see

!WRONG PASSWORD+++ ATHO

displayed on the screen and the connection is automatically interrupted. To carry out the connection start again from A 4.1.3.

A 4.1.4) DIALING INDEX PROGRAMMING

- By pressing key 1 you will select Option 1 of the dialing index program
- after a few seconds (about 30") you will see a menu that allows you to log in, delete, modify the existing data.
- the screen is divided into two fields: name, code.
- In the field "name" you can write the name.

It is possible to digit letters and numbers up to 28 characters; the space bar will delete forward, the arrows buttons can move the cursor where it is needed.

Names must always start on the very left margin: a blank space before the name will cause the name itself to be deleted from the dialing index.

- Once you have digitated the name, move forward with the space bar up to the first figure of the code column.

Now set the user's calling code by using the numerical keypad; numbers under 1000 will have to be set by preceding them with the necessary zeros (ex. 42=0042).

The codes column only accepts numbers from 0 to 9, and the arrows-buttons are the only ones functioning. They will enable the user to correct errors or to input new data by moving the cursor appropriately.

- Once programming is over, use the arrows-buttons to bring the cursor to the next line below the last user's name and input a new one. Once the first page is complete the request to move the cursor downwards will cause a new page to appear after a few seconds.

- At the end of the dialing index setting, press button * to confirm and save what has been logged in; after a few seconds (up to 60 sec.) the main menu will appear again on the screen.

A 4.1.5) PROGRAMMING OF USERS' GROUPS PROCESSED BY THE CDP70 UNIT

- When the main menu is on, press key 2 to select the option "GATE PROGRAMMING"; after a few seconds the requested menu will appear.

- Users are divided into groups of 1000 and are differentiated by the digits indicating thousands, therefore there will be groups from 0 to 999, from 1000 to 1999, etc.

- If the system has 2 units that work in pair (see also paragraph B 3) it will be necessary to log in the last of the four-digit-numbers of the users' groups processed (i.e.: for groups processed from 2000 to 2999, from 4000 to 4999, from 7000 to 7999, the digits 2, 4, 7 will have to be set)

- If the system is processed by one unit, then all users' groups will have to be logged in

- Now type the last of the four-digit-numbers corresponding to the processed users' groups (gathered into gates) by using the numerical keypad. Only digits from 0 to 9 are accepted. In case of a mistake you can press the space button to shift the cursor which, after reaching the final position, goes back to the beginning. It is now possible to digit new numbers.

- By pressing the space button, the number highlighted by the cursor will be deleted.

- At the end of the setting, press button * to confirm the procedure and after a few seconds the main menu will appear again.

A 4.1.6) HOW TO CHANGE THE PASSWORD

- Select the Password option by pressing key 3 from the main menu
- Minitel will display *PASSWORD*

- Digit the new password (which must have 5 digits) exclusively with the numerical keypad and then press ↵

- Minitel will show *PASSWORD* again

- Digit password for the second time and press ↵

- If the password has been digitated correctly both times, after a few seconds the main menu will appear again

- If there is any discrepancy between the first and second input, minitel will display *!WRONG PASSWORD*.

Press button ↵ to return to main menu and repeat the password setting procedure from the beginning.

A 4.1.7) EXIT FROM SETTING MODE

Once the main menu is on again, press key 4 to end the connection (Exit option).

After a few seconds minitel will show "*+++ATHO*" which indicates the end of the connection.

- Disconnect the DIN cable
- Switch off minitel.

A 4.2) Programming with remote minitel (via telephone line)

A 4.2.1) HARDWARE CONNECTION

- Connect minitel to the telephone line
- Connect the CDP70 unit to a modem using the very short cable with a 5-pole-DIN terminal on one end and a 25-pole-sub-d-plug on the other end.

- The connection is carried out according to RS232 standard.

- Your modem must be able to communicate according to the V23 terms, i.e. the standard of minitel.

A 4.2.2) SOFTWARE CONNECTION

- Press button ↵ on the CDP70 unit; this has to be done only once, when you switch on the modem, to initialize it. It will not be necessary to repeat this procedure as long as the modem is on, unless there is a power cut. This should not be a problem as button ↵ is frequently used during normal functioning.

- Switch on minitel and wait for F to appear on the screen

- Keep FNCT button pressed and then press button T

- Release the other buttons and press E

- Keep FNCT pressed and then press C

- Release the previous buttons and press E
- Using a telephone linked to minitel, dial the number to call the modem connected to CDP70.
- When you hear the ringing tone press the CONNEXION button and put down the receiver
- On minitel you will see a flashing "C"; after a few seconds (10-15") it will stop flashing and the *PASSWORD* will appear
- Digit the correct password and press ↵ (if you are programming CDP70 for the first time, note that the default password, already set by Bitron, is 77777)
- If the password is correct, minitel will be on standby mode and the cursor is white
- If the password is wrong minitel will display *!WRONG PASSWORD+++ATHO* and the telephone line will be automatically released.
- if the password is correct then type the word MINITEL and then ↵, after a few seconds the main menu will appear:

- 1 - INDEX PROGRAMMING
- 2 - GATE PROGRAMMING
- 3 - PASSWORD
- 4 - EXIT

Refer to paragraphs A.4.1.4. to A.4.1.6. for the various options setting. The minitel will work as if connected directly in local mode.

A 4.2.3) EXIT FROM REMOTE CONNECTION

Once in the main menu, select Exit option by pressing key 4; the minitel will show *+++ATHO* and the telephone line will be automatically released; now switch off minitel.

A 5) PROGRAMMING OF THE CDP70 UNIT WITH A PERSONAL COMPUTER

You need an IBM or a DOS compatible personal computer, with DOS version 5.0 or later, with at least a-4 MB-RAM, 386 processor or over and serial port RS232.

Together with the CDP70 unit you will find a 3.5" 1.44 MB diskette which contains the interface program between CDP70 and the computer.

A 5.1) Local setting

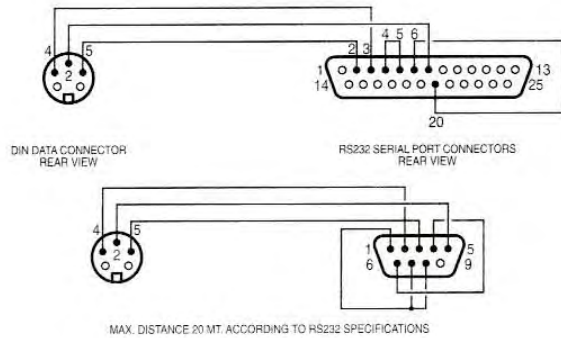
A 5.1.1) SOFTWARE INSTALLATION

Together with the CDP70 unit you will receive a 3.5" diskette. Place the diskette into the appropriate drive of a PC, copy its contents into a dedicated directory. For this procedure please refer to the computer DOS guide: note that this program cannot be used with WINDOWS but only with DOS.

A 5.1.2) HARDWARE CONNECTION

Observe the diagrams and connect the computer to the CDP70 unit via the serial port by using a wired cable (not supplied); the DIN jack is provided together with the unit.

CDP70 must be powered by the system or by 12 V dc power supply that has the positive pole linked to the P terminal and the negative pole linked to the G terminal of the connecting link..



A 5.1.3) SOFTWARE CONNECTION

Enter the directory where the program supplied with the unit is stored, digit CDP70 and then press Enter; the following menu appears:

```
[ Menu ]          BITRON SpA
Configuration
Index Edit
Call
Local Conn.
Exit
```

SISTEMA DIGITALE SERIE 70

A 5.1.4) COMMUNICATION PARAMETERS SETTING

By using the arrows-buttons select the option *Configuration* (the selected option will be brighter) and press ↵; the following menu will appear:

```
[ Configuration ]          BITRON SpA
Italian
Español
Français
English
Modem setting
ESC FOR EXIT
```

SISTEMA DIGITALE SERIE 70

Select the language by using the arrows and press ↵. Select the *Modem setting* option and press; ↵ the following menu will appear:

```
[ Configuration ]          BITRON SpA
Italiano
Español
Français
English
Modem Setting
```

```
[ Modem Setting ]
COM: COM1
BAUD-RATE: 1200
DATA BIT: 7
PARITY: EVEN
STOP: 1
DIALER KIND: PULSES
FILE MODEM: MODEMO.DAT
CONFIGURATION SAVING
```

ESC FOR MENU'

SISTEMA DIGITALE SERIE 70

By using the arrows and the Enter button you can access to the various options of the modem setting window just opened.

The *COM* option is used to specify the port to which the CDP70 unit is connected. Therefore if it is connected to the serial port COM 1 you will select COM 1, whereas if connected to the serial port COM 2 you will select COM 2. The choice is carried out by selecting the item requested. By pressing Enter, another window will pop up and you will be able to choose the item with the arrows buttons and then confirm it by pressing Enter.

It is very important that the following options are adjusted as indicated:

BAUD-RATE: 1200
 DATA BIT: 7
 PARITY: EVEN
 STOP: 1

Use the *DIALER KIND* option only when the modem for remote conversation is selected. We anyway suggest to adapt it to the type of selection compatible to the telephone line of your own city and to the kind of modem you are using (refer to the common carrier of telephone lines and to the modem user's guide). Once you have selected the Dialer Kind option, each time you press enter the type of selection will change. The *FILE MODEM* option is used for the connection to the different types of modem available on the market; Bitron has provided the program with 4 standard files as you can see by selecting the option. If you are using a local connection select file *MODEM 0.DAT*, which will be suitable for many types of modems. You can also try to select one of the other modem files, making sure that the local connection is not being used and the modem is not communicating with the PC. The *CONFIGURATION SAVING* option is used to save the setting that has just been processed: selecting it with the arrows or the Enter button, the window will be closed and data automatically saved. Press ESC to leave the configuration menu and return to main menu.

A 5.1.5) COMPILING THE DIALING INDEX

With the arrows select the *Index Edit* option from main menu and press enter, the following window pops up:

```
[ Index Edit ]          BITRON spa
Load File
New File
Delete File
```

ESC FOR EXIT

SISTEMA DIGITALE SERIE 70

Select the *Load File* option to open an existing record; select the *New File* option to open a new phone record and the *Delete File* option to delete an existing record from your Hard Disk. Choose the *Load File* option using the arrows and then enter; the following menu pops up:

```
[ Index Edit ]          BITRON spa
Load File
New File
Delete File

[ Load File ]
>BITRON. RTB
```

ESC FOR MENU

SISTEMA DIGITALE SERIE 70

Bitron has already logged in a file called BITRON.RTB. Press enter and you will see the following menu:

```
[ Index Edit ]          BITRON spa

Load File
New File
Delete File
Write Index
-----
Save Index
Save as .....
```

[BITRON.RTB]	
1 BITRON	1000
2	0000
3	0000
4	0000
5	0000
6	0000
7	0000
8	0000
9	0000
10	0000
11	0000
12	0000
13	0000
14	0000
15	0000
16	0000
17	0000
18	0000
19	0000
20	0000

ESC FOR USCIRE

SISTEMA DIGITALE SERIE 70

Now you can log in the dialing index record and save it with another name or you can modify it and then save it.

Select the *Write Index* option using the arrows and then press enter. The cursor now is on Write menu.

By using the space buttons and ← you can delete forwards or backwards, with the UP and DOWN arrows you can shift the cursor to the position needed. With the letter buttons you can write the name to be memorized, only letters (in capitals), numbers and symbols (- . , : /) are accepted. Type the name by using the keypad, you must start from the very beginning of the left margin, one blank space means deleting that location from CDP70 memory.

Once the name is written press enter. The cursor will move to the numerical column, now digit the user's calling code (only numbers are accepted) and remember to write the digits below 1000 adding the necessary zeros before (ex. 47= write 0047).

After digiting the fourth figure the cursor will go back to the beginning of that user's position. With the arrows move to a blank record to input the next user. At the end of the procedure press ESC to return to the previous menu and then select the *SAVE INDEX* option to store the new data. If you want to change the label of the record just logged in, select the *SAVE AS...*option and you will see the following menu:

```
[ Index Edit ]          BITRON spa

Load File
New File
Delete File
Write Index
-----
Save Index
Save as .....
```

```

[ BITRON.RTB ]
1 BITRON          1000
2                  0000
3
4 [ New File ]
5 FILE NAME:
6
7
8
9
10
11
12
13
14
15                0000
16                0000
17                0000
18                0000
19                0000
20                0000

```

ESC FOR EXIT

SISTEMA DIGITALE SERIE 70

Digit a name with a maximum of 8 characters and press Enter; if the file already exists, you will be asked if you want to replace it; if it does not exist the program will automatically save the file under the new name. After saving the file, press ESC to return to main menu.

A 5.1.6) LOCAL CONNECTION

From the main menu select *Local Connection* using the arrows and press enter; the following menu will appear:

```

[ Local Conn. ]      BITRON spa
                    [ Password ]

```

ESC FOR EXIT

SISTEMA DIGITALE SERIE 70

You will be asked to write the password; if you are programming the CDP70 unit for the first time please remember that the default password, already set by Bitron, is 77777; now digit the password and press enter (the password must be only numerical and made up of 5 digits). You will read *WAIT...* and after 10-15 seconds the message *IN LINE* will appear and you will see the following menu:

```

[ Local Conn. ]      BITRON spa
Tx
Rx
Gate
Password
End conn.

```

ESC FOR EXIT
IN LINE

SISTEMA DIGITALE SERIE 70

A 5.1.6.1) TRANSMISSION OPTION

This option is used to check a dialing index record that has been previously logged in following the instructions of paragraph A 5.1.5. By using the arrows and Enter, a list of all the stored records will appear: select the one you need and press Enter to start the data transfer from PC to CDP70; the screen will show the message *WAIT...* and will have a small revolving slash at the lower-left corner (this operation will take approx. 6 minutes); at the end, the message *IN LINE* is displayed and the list of records will be closed.

If during the transmission some data is lost, the message *CECKSUM KO* will be displayed and the whole procedure has to be repeated.

```

[ Local Conn. ]      BITRON spa
Tx
Rx
Gate
Password
End conn.
                    [ Load File ]
                    FILE NAME:

```

ESC FOR MENU

IN LINE

SISTEMA DIGITALE SERIE 70

A 5.1.6.2) RECEPTION OPTION

The *Reception* option is used to receive the dialing index data from the CDP70 unit and store it into the PC Hard Disk so you will be able to modify them eventually, later on.

Select this option with the arrows and Enter; you will be requested to type a name (max. 8 letters) to store the dialing index under. If the name already exists, you will be asked if you want to type over it.

Digit the name and press ↵

The message *WAIT...* is displayed and you can see a small slash that slowly revolves in the lower left corner of the screen (this will take about 3 minutes); once this is over, the message *RX OK* will be displayed and the new file will disappear.

A 5.1.6.3) GATE OPTION

This option is used to define the users' groups processed by the telephone exchange. Please remember that users are divided into groups of 1000, that is from 0000 to 0999 (group 0), from 1000 to 1999 (group 1), etc.

If the system has only one telephone exchange, then it will be necessary to set all groups, that is 0, 1, 2, 3, 4, 5, 6, 7, 8, 9. Refer also to chapters A 1.3), A 1.5), A 2.3.5). After selecting the option, the following menu will appear:

```

[ Local Conn. ]      BITRON spa
Tx
Rx
Gate
Password
End conn.
                    [ Gate ]

```

ESC FOR MENU

RX OK

SISTEMA DIGITALE SERIE 70

Only numbers from 0 to 9 will be typed and they will be automatically distanced; by pressing enter you will confirm the data which will be stored into the CDP70 unit and the window will be closed; if the data have been wrongly set, the message *TX KO* will appear and the whole procedure has to be repeated.

A 5.1.6.4) PASSWORD OPTION

This option is used to change the access password of the CDP70 unit; if you select this option the following menu will appear:

```
[ Local Conn. ]          BITRON spa
Tx
Rx
Gate
Password
End conn.

          [ Password ]
          Password 77777
          Password
```

```
ESC FOR EXIT
IN LINE          SISTEMA DIGITALE SERIE 70
```

Digit the new password (only 5 numerical digits) and press enter. The PC creates a new location to digit the password, type the new password and press enter; in case of a mistake the message *PASSWORD KO* will appear at the bottom left side of the screen and the old password will still be valid. Repeat the procedure from the beginning and if all the steps are correct, the menu disappears and the new password is stored.

A 5.1.6.5) END OF CONNECTION OPTION

This option ends the connection with the unit which will return to its normal functioning (during these link operations the CDP70 display will show the message *OUT OF ORDER 1*).

Select this option with the arrows and press enter; after a few seconds the main menu is displayed on the PC screen. To exit the program select Exit and press \leftarrow .

A 5.2) Remote setting via modem

A 5.2.1) HARDWARE CONNECTION

The personal computer has to be equipped with a modem that has a speed of at least 2400 bps; as for installation and connection please refer to the user's guides of PC and modem.

The CDP70 unit has to be equipped with a modem that has a speed of at least 2400 bps and that includes the standards CITT V32/V32bis, V22/V22bis, V23, V21. Connect the modem to the CDP70 serial port with the cable supplied (DIN 5 POLES 7 SUB-D 25 POLES), connect the modem to the telephone line and to the power supply and then switch it on. Press \leftarrow on CDP70 to initialize the modem (this operation has to be carried out only the first time and every time the modem is switched on).

WARNING Modem Setting:

The modems linked to the PC and/or the CDP70 unit must be set and you can use a personal computer to do that. The following instructions will show an example of setting used by Bitron on a TOPLINK 2400 and a TRUST 1414 A/AE modem.

Modem TOPLINK 2400

```
Active Profile:
B1 E1 L2 M1 Q0 V1 X1 Y0 &C1 £D0 £J0 £L0 £P0 £X0 £G0 £Y0
S00:000 S01:000 S02:043 S03:013 S04:010 S05:008 S06:002
S07:030 S08:002 S09:006 S10:014 S11:095 S12:050 S14:AAH
S16:00H S18:000 S21:20H S22:46H S23:15H S25:005 S26:001
S27:40H
```

Modem TRUST 1414A 1414 AE

```
Active Profile
B1 B16 B30 B41 B60 E1 L2 M1 N1 T Q0 V1 W0 X1 Y0 &B1 &C1 &D0
&G0 &J0 &K3 &L0 &P0 &Q0 &R0 &S0 &U0 &X0 &Y0
\A3 %A013 \C0 %C1 %E1 \G0 %G0 \J0 \K5 \N0 \Q3 \T000 \W0 \X0 - J1
"H3 "0032
S00:000 S01:000 S02:043 S03:013 S04:010 S05:008 S06:002
S07:050 S08:002 S09:006 S10:014 S11:095 S12:050 S18:000
S25:005 S26:001 S37:009 S112:000
```

For further explanations please refer to the modem's guide. Once the setting is stored, most types of modem will keep the data memorized, even if a power-cut occurs, therefore it is possible to move it from PC to system.

A 5.2.2) SOFTWARE CONNECTION

After loading and running the interface program between PC and CDP70 as in paragraphs A 5.1.3. and A 5.1.4 and returning to main menu, select the Call option with the arrows and then enter, the following menu will appear:

```
[ Call ]          BITRON spa

          [ Tx ]
          Number
          Password
          CALL
```

```
ESC FOR MENU
          SISTEMA DIGITALE SERIE 70
```

Press enter, the cursor will flash on the number location, digit the phone number that you want to call (the line of which is linked to the CDP70 modem) and press enter. With the arrows select Password and press enter. Digit the password corresponding to the unit that you want to program and then press enter. Bitron has installed the default password 77777, therefore the first time this will be the number to use.

With the arrows select the word Call and press enter, thus starting to call. The screen will show *WAIT...* the CDP70 modem will answer, the conversation will start and the screen will show *IN LINE*. If for any reason the conversation cannot be started you can abort the function with *ESC* (wait a couple of seconds) and then the whole procedure has to be repeated from the beginning.

If the communication is established you will see the same menu as in A 5.1.6. *Transmission, Reception, Gate, Password* and *End of Connection* options are the same ones explained at A 5.1.6.1), A 5.1.6.2), A 5.1.6.3), A 5.1.6.4).

A 5.2.3) END OF COMMUNICATION

Select the *End of Connection* option and press enter; after a few seconds the modem will release the line and the PC will return to main menu. To leave the program select the *Exit* option.



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