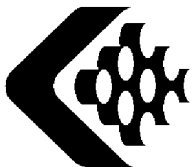
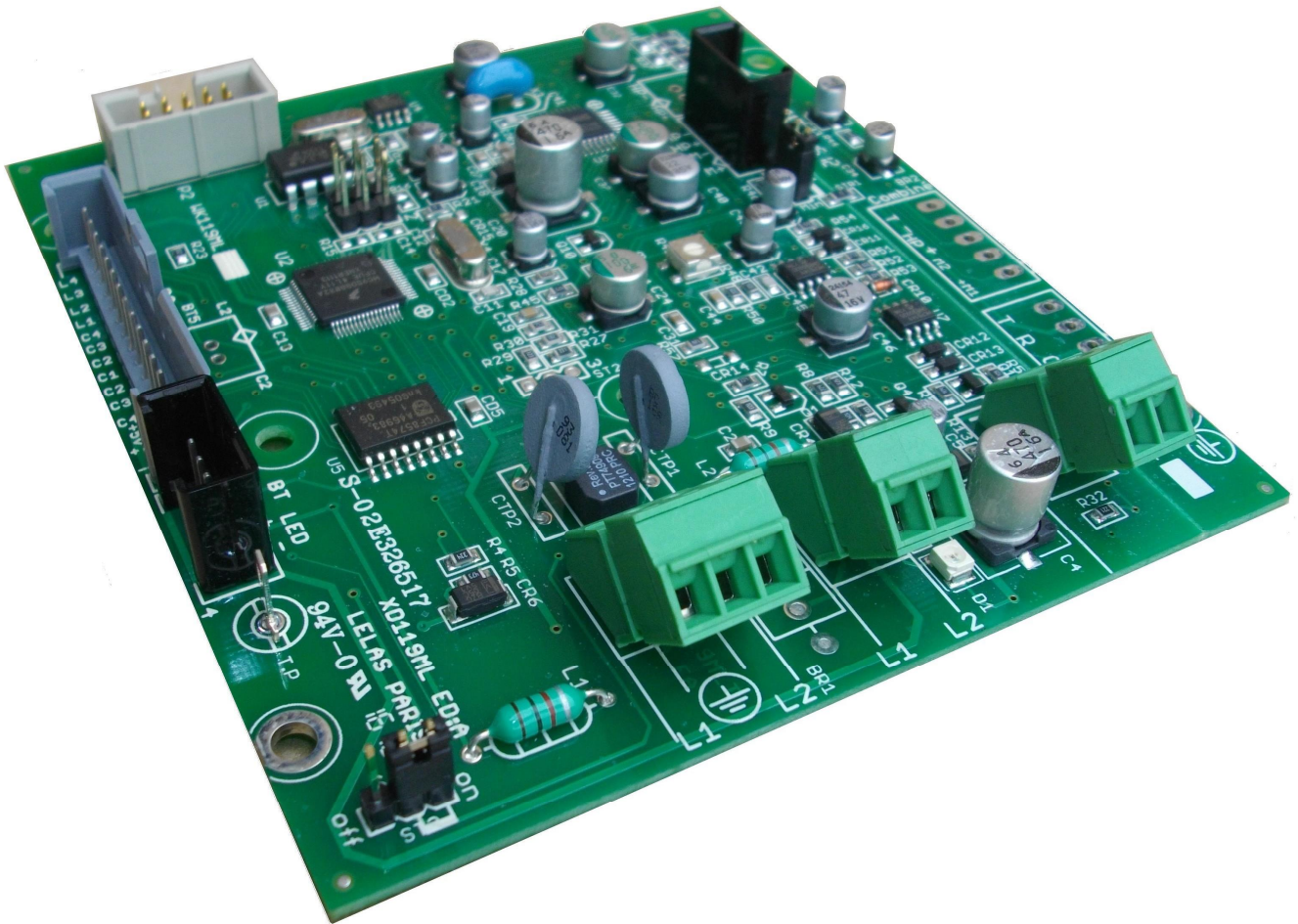


USER GUIDE AND PROGRAMMING MANUAL
« HANDS FREE » TELEPHONE CARD
WK119MLT



Groupe LE LAS
COMMUNICATING IN SAFETY

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USER GUIDE AND PROGRAMMING MANUAL
« HANDS FREE » TELEPHONE CARD
WK 119 MLT

PHONE CARD FOR HANDS-FREE TELEPHONE

WK119MLT

NOTE

THE GUARANTEE IS VALID ONLY WHERE PRODUCTS ARE INSTALLED AND OPERATED STRICTLY IN ACCORDANCE WITH THE INSTRUCTIONS DESCRIBED IN THIS MANUAL.

NO GUARANTEE CAN BE INVOKED IF DETERIORATION RESULTS FROM AN EXTERNAL SOURCE OR FROM LACK OF ADHERENCE TO INSTRUCTIONS FOR USE.

IN THE DESIRE FOR CONSTANT IMPROVEMENT, THE INFORMATION CONTAINED IN THIS DOCUMENT AND THE CHARACTERISTICS OF THE EQUIPMENT MAY BE SUBJECT TO MODIFICATION WITHOUT PRIOR NOTICE

EUROPEAN STANDARDS

UNITS BEARING THE CODE $\tilde{\text{CE}}$ CONFORM TO EMC DIRECTIVE EMC (2014/30/EU) AND THE DIRECTIVE RELATING TO LOW VOLTAGE (2014/35/EU) FORMULATED BY THE EUROPEAN COMMUNITY.

UK BAPT APPROVAL

UK BAPT APPROVAL No S/4130/3/Y/504612

REN (RINGING EQUIVALENCE NUMBER) = 1

1. FEATURES

- Pulse/Tone dialling.
- Automatic clear down capability.
- Automatic answering capability or answering after a programmable number of rings.
- « Tone security protection » (microphone operable only after called party answers)
- Programming of stored numbers locally or via telephone line from any DTMF telephone.
- Chained numbers if the called number is busy or does not answer after a programmable time.
- Modification of settings via telephone line from any DTMF telephone or via a maintenance station, for example:
 - Ringing type
 - Ringing volume
 - Loudspeaker volume
 - Dialling type
 - Automatic answer etc...

IMPORTANT

THESE MICROPROCESSOR BASED PRODUCTS, WHEN CONNECTED TO THE TELEPHONE LINE, CARRY OUT AN AUTO-TEST BY TRANSMITTING AUDIBLE SIGNALS.

THEY ARE EQUIPPED WITH MANY PROGRAMMABLE FUNCTIONS AND ARE FACTORY CONFIGURED FOR NORMAL USE.

BEFORE INSTALLATION, READ THIS MANUAL CAREFULLY TO BE SURE THE FACTORY SETTING SUITS THE DESIRED USE.

The « Hands free » telephones operate without any modification to PSTN circuits. For perfect operation on a PABX, it is necessary to ensure that the following characteristics conform to those of your switch.

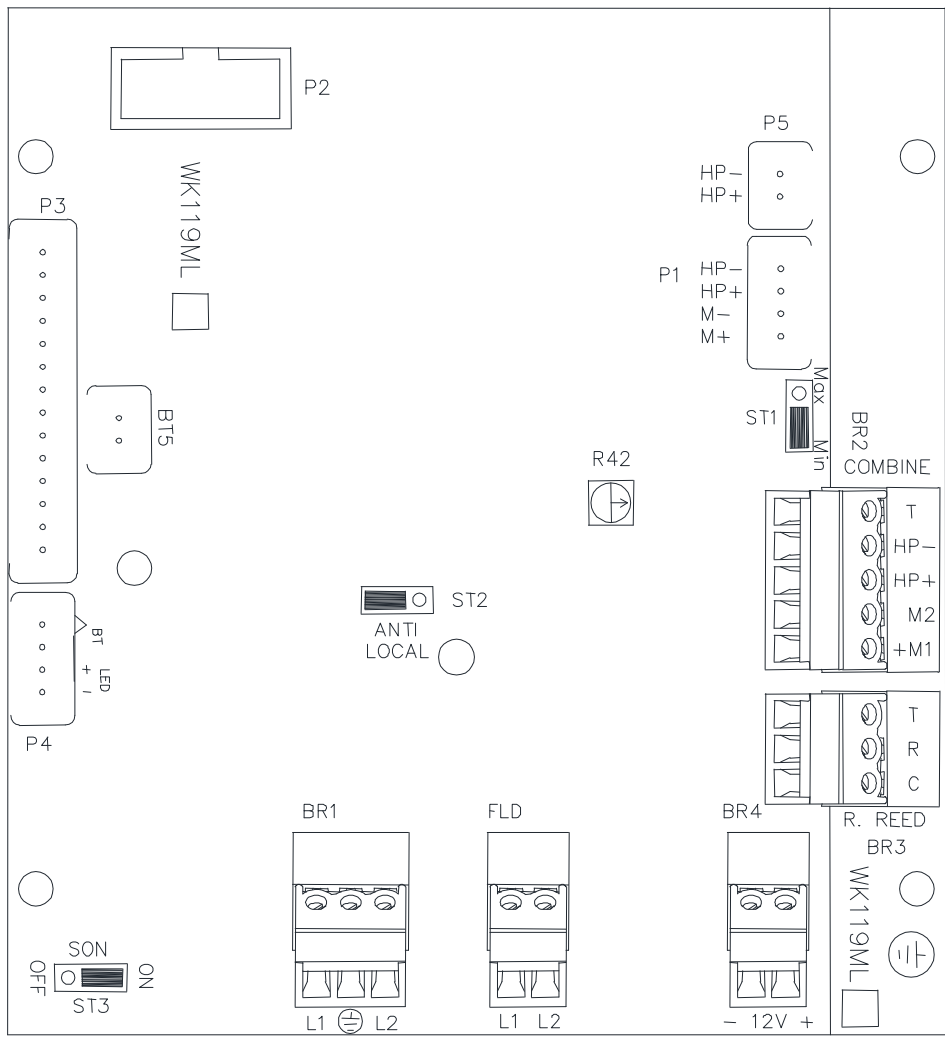
In the event of incompatibility, software modifications can be carried out on request. Contact the supplier for more information.

1.1 TECHNICAL CHARACTERISTICS

- Ringing call voltage > 35 V RMS 25Hz or 50Hz
- Current in the telephone (off-hook position) 35mA (20mA minimum)
- Voltage at terminals (on-hook position) 48V (24V minimum)
- Dialling system DTMF or Pulse
- Dialling tone Continuous tone
Frequency: 270 to 540Hz Detection time 2 sec.minimum
- Busy tone
Frequency: 300 to 500 Hz
Beep/pause sequence for more than 10 seconds. Detection time 4-10 sec
Beep: 100 to 600 ms
Pause: 100 to 600 ms
- Distance ringing tone
Frequency: 350 à 500Hz
Beep/pause sequence until far-end off-hook
Beep: 0.2sec. to 1.6 sec.
Beep + pause sequence < 6 sec.
- End of conversation sequenced tone
Frequency: 300 to 500 Hz
Beep/pause sequence for more than 10 seconds. Detection time 4-10 sec
Beep: 100 to 600 ms
- End of conversation continuous tone
Frequency: 300 to 500 Hz or 760 to 840 Hz
Tone sequence for more than 10 seconds Detection time 6-10 sec.
- Call voltage transmitted by the switch
Frequency : 50Hz or 25Hz
Ringing duration : 1.5s ± 0.5s
Pause duration : 3s ± 2s

2. LAYOUT OF THE TELEPHONE CARD

The motherboard consists of two detachable parts, which can be cabled or not, according to the model of telephone that you possess (with keyboard, with button, with or without handset etc...).



FUNCTIONS	REF	JUMPERS
SENSITIVITY OF THE HANDS FREE MICROPHONE Sensibilité à 1 mètre : placer le cavalier sur MAX Sensibilité à 30 cm : placer le cavalier sur MIN	ST1	MIN MAX MIN MAX
SETTING OF NOISE THRESHOLD Minimum setting : quiet location Maximum setting : noisy location NOTE : normal setting is carried out in factory (see drawing)	R42	MIN MAX

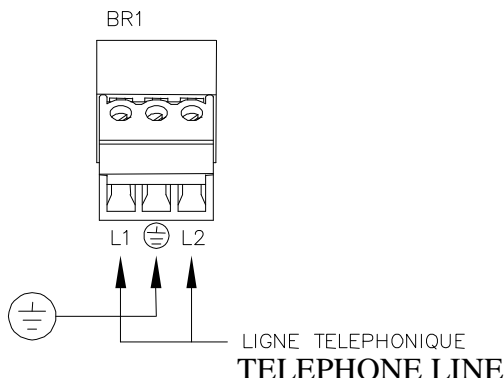
NOTE: DO NOT MOVE THE JUMPERS MARKS ST2 AND ST3.

This motherboard is totally compatible with the previous versions.

3. CONNECTION OF THE TELEPHONE SET

3.1 CONNECTING OF THE TELEPHONE LINE

The connectors let single or multi wires in a max section of 1.5mm². Link the telephone line on the connector that can be plugged in mark "BR1".

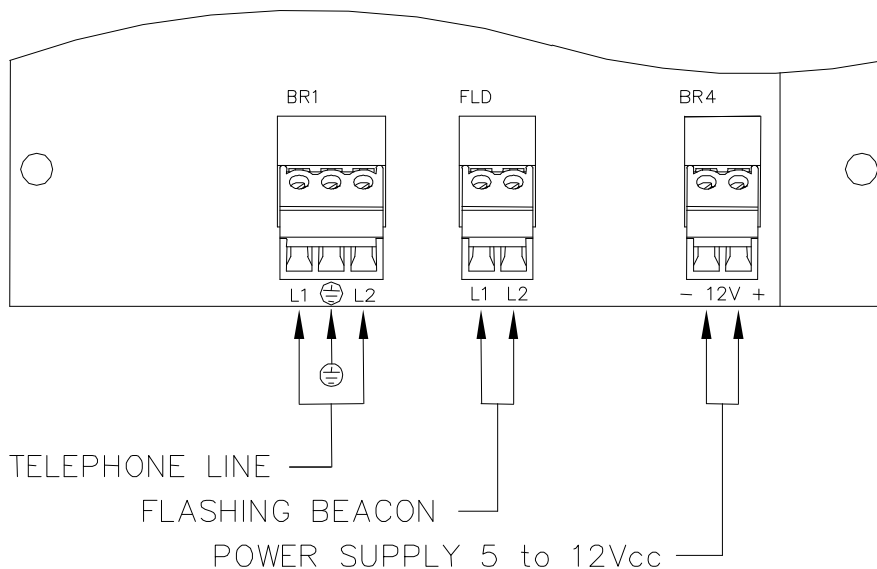


3.2 EARTH GROUNDED OF THE TELEPHONE SET

The electric earth grounded is executed either externally with the earth screw (situated on the lower face of the box) marked by the abbreviation ⊥, or inside on the connector ⊥ situated on the connector that can be plugged in mark "BR1" of the motherboard.

3.3 CONNECTING TELEPHONE LINE WITH FLASHING LIGHT INTEGRATED

Link the telephone line on the connector that can be plugged in mark "FLD" of the flashing light card*, as well as the earth grounded as indicated above.



* In some versions, the flashing light card can be dissociated from the motherboard.^N

4. USAGE OF SINGLE-BUTTON (S1) / MULTI-BUTTON (S2, C4, C8) **TELEPHONE**

OPERATION : Each button dials a pre-programmed telephone number
(see chapter on programming).

HOW TO MAKE A CALL

1

PRESS THE CALL BUTTON (S1 VERSION)
OR DESIRED CALL-BUTTON (S2, C4, C8)

The red indicator shows

When the called party answers, speak in front of the telephone from a distance of
Approximately 20cm (8in).

At the end of conversation, to free the line :

2

PRESS THE CALL BUTTON 2 SEC.
OR ALLOW THE TELEPHONE TO CLEAR DOWN
AUTOMATICALLY

The red indicator ceases to show.

IMPORTANT : For the CB telephone version, keep the button pressed whilst communicating.
Release the button to free the line.

5. USAGE OF THE TELEPHONE WITH FULL KEYPAD

HOW TO MAKE A CALL / HOW TO ANSWER A CALL

1
PRESS THE CALL BUTTON



The red indicator show.

2
KEY THE NUMBER

When the called party answers, speak in front of the telephone from a distance of
Approximately 20cm (8in).
At the end of conversation, to free the line

3
PRESS THE CALL BUTTON
OR ALLOW THE TELEPHONE TO CLEAR DOWN
AUTOMATICALLY



The red indicator ceases to show.

LAST NUMBER REDIAL

1
PRESS THE CALL BUTTON



The red indicator shows

2
PRESS **BIS/LR**



When the called party answers, speak in front of the telephone from a distance of
Approximately 20cm (8in).
At the end of conversation, to free the line :

3
PRESS THE CALL BUTTON
OR ALLOW THE TELEPHONE TO CLEAR DOWN
AUTOMATICALLY



The red indicator ceases to show.

FLASH RECALL

PRESS « R »



A programmed flash recall of 270ms takes place
Length of time of flash can be adjusted by programming

The **R** button has a three functions according to the programming : flashing or direct memory M1.(see chapter programming) or muting microphone.

If « Direct Memory » is selected, the R button is used in the same way as the Call Button on the « S1 » Autodial version (see below).

NOTE

LENGTH OF CONVERSATION IS LIMITED IN THE FACTORY TO A
LIMIT OF 4 MINUTES.
IT CAN BE CHANGED BY PROGRAMMING.

MUTING MICROPHONE

In noisy environment, it may be useful to activated or deactivate the microphone by pushing a key (« **R** » key is used).

For this facility, programm the unit as following :

24xx = 0 Flashing time deactivated.

32xx = 99 going « on hook » by pressing a memory key a long time deactivated.

At the beginning of the communication, microphone is activated.

- By pushing « **R** », microphone is still on.
- By releasing « **R** », microphone is deactivated.
- Microphone is then activated by « **R** » key as a « PTT » key (push to talk) till the end of the communication.

6. OPTIONS

6.1 RELAY BOARD ó DOOR ENTRY / PUBLIC ADDRESS (WK026CRG)

- This optional card connected via a flat ribbon cable to telephone card (on connector P2), enables the activation of a relay from a remote telephone or system.

This relay can activate for example:

- electric door entry mechanism
- lighting
- public address amplifier with loudspeaker

In its factory setting, the code to activate the relay is 1. This code must ALWAYS be keyed between two * characters. Keying * 1 * from a remote telephone will therefore activate the relay. Where ever a double relay eard (WK026CR2G) is used, the second relay is activated by code *2*, by adding 1 to the first relay code value.

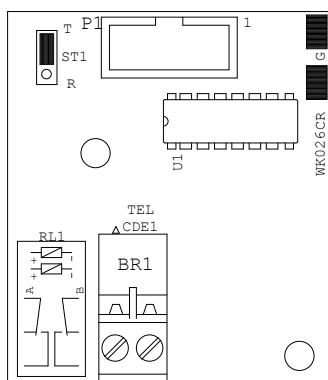
Keying this code on the keypad of a telephone equipped with a relay board will not activate its own relay.

In the factory setting, the activation time of the relay is 2 sec. The DTMF code * is used to deactivate the relay. The activation code (up to 4 digits) and the time (value between 00 and 99 seconds) are modifiable (see programming).

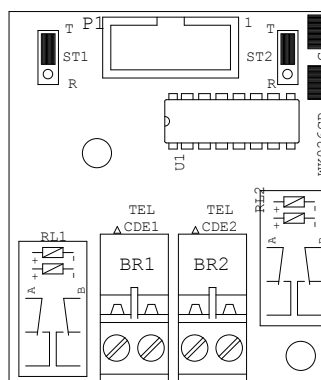
NOTE

IF THE ACTIVATION TIME IS 00 THE TIMING IS NOT ACTIVATED.
 TO DE-ACTIVATE THE RELAY SIMPLY PRESS *
 IN ALL CASES THE RELAY WILL BE DE-ACTIVATED ON HANGING UP.

- Relay contact capacity: 60 Volts, 1 Amp
- ST1, ST2 setting jumper:
 - T relay closed when activated
 - R relay open when activated



WK026CRG : 1 relay board



WK026CR2G : 2 relays board

7. PROGRAMMING

The TLS telephone is designed to facilitate programming remotely over a telephone line.

Programming is carried out using sequences keyed from a DTMF telephone, when connected to the TLS telephone to be programmed.

CAUTION :

- 1- **When entering programming, do not re-key for a second time the access code, if you are not sure that you have heard the acknowledgement beep, because in doing so you run the risk of modifying parameters relating to the first two digits of the code.**

Enter code *6000* if you hear the unit's ID (one or more beeps according to the identifier), this means that you were in programming mode and you can therefore proceed to program your options. If you don't hear a beep, enter the programming access code to re-enter programming.

- 2- **Telephones connected via digital lines may not enter programming mode satisfactorily..**

7.1 PROGRAMMING CODES

IMPORTANT :

Before all programming, key the access code : *1234* (factory setting) or as changed by the user (see function 12/13 below).

The acceptance sequence is a single beep if memory M0 (see function 18 below) is empty or a single beep followed by the contents of Memory 0 followed by « * » if memory M0 has been programmed.

Non-acceptance is indicated by « no-response » in which case it is necessary to try again.

Proceed with programming as follows :

For each programming sequence below the telephone gives an acceptance/non-acceptance sequence. The acceptance sequence is a mix DTMF tones (functions N° 1, 5 and 18 below) or a single beep (all other functions).

In all cases the non-acceptance sequence is two beeps.

If the non-acceptance sequence is received, it is necessary to try again.

NOTE: For posts **402E2S1** series at 1 button, it is assigned to the memory M5.

For version 2 a button in the same series, the 2nd button is assigned to the memory "M1."

The combination will be as follows: * 5001 * # 11 # * <N>

NB: For the button 2, there is no sequence number.

Function No	Function	Programming code
1	<p><u>AUTODIAL NUMBERS</u> (If no chaining is required) If chaining is required, use function No5 instead (page 20)</p> <p>During memory programming , the combination #11# Represents the recognition of a continuous tone with a frequency of 440 Hz \pm 100Hz (standard) before dialling.</p> <p>This is the standard for UK and many other countries but in Some other countries #10# may be applicable instead, Whereby a 2-second pause is inserted rather than tone recognition.</p> <p><u>PROCEED AS FOLLOWS :</u> SINGLE BUTTON TELEPHONE Program button : N = autodial number from 1 to 15 digits.</p> <p>Program empty memory : (factory preset)</p> <p>DUAL-BUTTON TELEPHONE Program lower button : N = autodial number from 1 to 15 digits.</p> <p>Program empty memory :</p> <p>Program upper button : N= autodial number from 1 to 15 digits.</p> <p>Program empty memory : (factory preset)</p> <p>For 4 - BUTTON TELEPHONE program memories 1, 3, 7, 9 with autodial numbers and memories 2, 4, 6 and 8 as empty memories.</p> <p>For 8 ó BUTTON TELEPHONE Program memories 1 ó 8 with autodial numbers and set chaining times T1 and T2 (see function 5 below) to 00 seconds. For full keypad telephone, to assign button R (recall) to Memory 1</p>	<p>*5001*#11#N*</p> <p>*5002**</p> <p>*5001*#11#N*</p> <p>*5002**</p> <p>*5005*#11#N*</p> <p>*5006**</p> <p>For 8-button telephone ONLY. *2000* and *2100* *2400*</p>

2	<p>TYPE OF DIALLING / CONFIGURATION</p> <p>Although this equipment can use either loop disc or DTMF Signalling only the performance of the DTMF signalling is subject to regulatory requirements for correct operation. It is therefore strongly recommended that the equipment is set up to use DTMF signalling for access to public or private emergency services.</p> <p>DTMF signalling also provides faster call set-up.</p> <p>For configuration, each function has a value as follows:</p> <p>1/ DTMF dialling and automatic cleardown. 00</p> <p>2/ For pulse dialling and automatic cleardown. 01</p> <p>3/ No access to memory dialling : 02</p> <p>4/ No cleardown on receipt of tone : 04</p> <p>5/ Push to talk mode : 08</p> <p>Those values should be summed and the total applies e.g :</p>	<p>*1000*</p> <p>*1001*</p> <p>*1007* = pulse dialling, no access to memory dialling, no cleardown on receipt of tone.</p>
3	<p>LOUDSPEAKER VOLUME</p> <p>V= volume from 1 to 9 (factory setting = 5)</p>	<p>*140V*</p>
4	<p>RINGING VOLUME</p> <p>V= volume from 1 to 7 (factory setting = 7)</p>	<p>*160V*</p>
5	<p>PROGRAMME A NUMBER CHAIN</p> <p>It is possible to program a number chain, so that, for autodial buttons, if the first number dialled is busy or does not answer, the telephone will dial one or more alternative number in a chain until successful connection is made.</p> <p>All telephone numbers programmed into the chain must be different, no number may appear more than once.</p> <p>(see note in function 1 above for usage of #11# and #10#)</p>	<p>*500M*#11#N*</p> <p>M (memory) = 1,2,3 .8 max.</p> <p>N= Call number up to 15 digits</p> <p>The chain stops at the first empty memory.</p>

	<p><u>THE STEPS TO TAKE ARE :</u></p> <p>SINGLE-BUTTON TELEPHONE Program the main number in memory 1 and additional Numbers in memories 2-8. Program an empty memory following the last number entered, e.g., if two numbers are programmed, memory 3 should be empty : (factory preset)</p> <p>DUAL-BUTTON TELEPHONE Program lower button with memory 1 and either one or two Additional memories (as required) for chaining, e.g., for two additional numbers, program memory 1 with the main Number and memories 2 and 3 for back-up numbers.</p> <p>Program the next memory, in the example shown memory 4, as an empty memory :</p> <p>Memory 5 is designated as the main number for the upper Button. This is programmed in the same way as memory 1. Finally, memories 6, 7 and 8 are programmed with additional numbers for the upper button.</p> <p>NB : No chaining is possible with the 4-BUTTON or 8-BUTTON telephone.</p> <p>To program the interval between memory auto-dial attempts T1 between M1 ó M2 and T2 between M2 ó M3, M3 ó M4 etcí if necessary</p> <p>These times are the intervals in the event of no-answer Before dialling the next number.</p> <p>For T1 key : TT is the time in seconds. If only one number TT=00</p> <p>For T2 key :</p>	<p>*5003**</p> <p>*5004**</p> <p>*20TT*</p> <p>*21TT*</p>
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	<p>If chaining 2 or several numbers, 2 choices are possible :</p> <p>a) to hear what actually happens on the line : program T1/T2 with even number (e.g., :30 sec)</p> <p>b) to mask what happens on the line (no-answer, busy tone,í) until the called party picks up, by simulating ringing and flashing LED. On detection of speech from the called party, a long beep announces to both parties that the communication has been established, the LED shows constant. For this, program T1/T2 with an odd number (e.g. 31 sec.)</p>	
<p>6</p>	<p>NUMBER OF RINGS BEFORE AUTOMATIC ANSWER</p> <p>In the factory, the telephone is set to answer automatically after 3 rings. To change this number, key :</p> <p>NN= 00 to 99 NN= 03 factory setting (answer automatically after 3 ring or manually by pushing the button) NN= 00 automatic answer with no ringing (suitabel only for programming) NN= 99 No automatic answer (answer only manually by pushing the button)</p> <p><u>Important note :</u> Where 00 is programmed, both microphone and loudspeaker are de-activated on auto-answer, where 01-98 is programmed, the microphone is de-activated on auto answer (but the loudspeaker is active). The microphone can be activated by pushing any button. If, in this case, the telephone receives programming signals (from an operator or call-centre system, the loudspeaker is de-activated. It can be re-activated by keying the code * 9901 *</p>	<p>*11NN*</p>

<p>7</p>	<p>RELAY ACTIVATION TIME This should be set to There is no limit to the relay activation duration. The relay is de-activated by pressing the * key or by hanging up.</p> <p>DD= 01 to 98 DD= 00 (no limit) Factory setting 02 (sec.)</p> <p>ACTIVATION CODE In the factory, the relay activation is set to 1.</p> <p style="text-align: center;">NOTE</p> <p>The code can be between 1 to 9999 If this code has 4 digits, it must not be the same value as the programming access code.</p> <p>The remote command code is a 4 digit code. To program it, 2 actions are required : Programming of thousands and hundreds, identified below as T and H Programming of tens and units, identified below as D and U</p> <p>For T and H, key :</p> <p>TH = 00 to 99 If T = 0 it is a 3 digit code If TH = 00 It is a 2 digit code</p> <p>For D and U, key : DU = 00 to 99 If THD = 000 It is a 1 digit code</p>	<p>*25DD*</p> <p>*26TH*</p> <p>*27DU*</p>
<p>8</p>	<p>MAXIMUM CALL DURATION Length of conversation before automatic cleardown</p> <p>Range XX=-00 No limit XX=-99 99 minutes Factory setting 4 minutes.</p>	<p>*12XX*</p>

9	<p>DURATION OF SILENCE BEFORE AUTOMATIC CLEARDOWN</p> <p>XX = 30 30 seconds (factory setting) XX = 00 Does not clear down on duration of silence XX = 99 99 seconds Note : frequency tones are taken as silence.</p>	*13XX*
10	<p>TYPE OF RINGING MODULATION</p> <p>XX = 00 Pure Frequency (factory setting) XX = 01 3 Frequencies mixed</p>	*15XX*
11	<p>DURATION FOR WHICH BUTTON MUST BE PRESSED CONTINUOUSLY BEFORE TELEPHONE GOES « ON LINE »</p> <p>XX = 00 Immediate (factory setting) XX = 99 9.9 seconds</p>	*17XX*
12	<p>PASS CODE (1) First two digits of programming pass-code</p> <p>XX = 12 (factory setting) XX = 10 (range) XX = 99</p>	*30XX*
13	<p>PASS CODE (2) Last two digit of programming pass-code Note : The pass-code is a 4 digit code (from 1000 ó 9999). It is input in two halves, as described above.</p> <p>XX = 34 (factory setting) XX = 10 (range) XX = 99</p>	*31XX*
14	<p>DURATION FOR WHICH BUTTON MUST BE PRESSED CONTINUOUSLY FOR CLEARDOWN TO TAKE PLACE</p> <p>XX = 20 (factory setting) XX = 00 (range) no clear down XX = 99 9.9 seconds</p>	*32XX*

15	<p>MINIMUM TONE RECOGNATION/CLEARDOWN FREQUENCY</p> <p>XX = 25 250Hz (factory setting) XX = 00 0Hz (range) XX = 99 990Hz</p>	*34XX*
16	<p>MAXIMUM CLEARDOWN TONE FREQUENCY</p> <p>XX = 50 500Hz (factory setting) XX = 00 0Hz (range) XX = 99 990Hz</p>	*35XX*
17	<p>RETURN TELEPHONE TO FACTORY SETTING ERASE MEMORIES</p> <p>XX=00 Acknowledgement from telephone after about 1.3s XX = 02 Erase memories M0 ó M9</p> <p>Warning : After enter *9800* you have to enter the code *4501* !!</p>	*98XX*
18	<p>PROGRAM TELEPHONE ID</p> <p>This is a code of up to four digits which should be programmed into memory M0. The telephone will automatically transmit this ID code followed by « star » (*) on receipt of thec command code *0600* from a central system. N = telephone ID up to 4 digits</p>	*5000*N*

8. OPERATIONAL COMMAND CODES

Function No	Function	Programming code
1	<p>REQUEST TELEPHONE ID</p> <p>This code is transmitted by the central system to determine the identity of a telephone calling the centre. The telephone will respond with its telephone ID (see programming code 18 above)</p>	*0600*
2	<p>AUTOMATIC CLEARDOWN</p> <p>At the end of a call without access to programming, the central system or operator can effect an automatic clear-down by transmitting this code :</p> <p>However, if the call has included access to programming, automatic clear-down is carried out by transmitting this code :</p>	<p>*0990*</p> <p>*9900*</p>
3	<p>TEST MICROPHONE AND LOUDSPEAKER</p> <p>Acknowledgement from telephone : 1 sec. Transmission of frequency of 1244Hz Followed by : 1sec. Transmission of frequency of 622Hz Note : After test, the loudspeaker is switched off.</p> <p>To re-activate the loudspeaker :</p> <p>To conclude the test :</p>	<p>*9700*</p> <p>*9901*</p> <p>*9900*</p>

DISTANCE AUDIO TEST

- To check the microphone and the line

Call the telephone with its number from the distant telephone, when the telephone takes the hook off, listen to the ambient noise=== telephone line and microphone ok.

- To check the telephone loudspeaker

Enter into programming ***1234*** then dial ***9700*** then listen to the bip ===== if BIP sound appears loudspeaker ok.



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