USER GUIDE AND PROGRAMMING MANUAL « HANDS FREE » TELEPHONE CARD

WK120MLT





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Equipment for industrial sites

PHONE CARD FOR HANDS-FREE TELEPHONE

WK120MLT

– WARNING –

BEFORE COMMISSIONING, READ THIS MANUAL CAREFULLY TO ENSURE THAT THE MANUAL SUPPLIED TO ENSURE THAT THE FACTORY CORRESPONDS TO THE INTENDED USE.

NOTE

THE GUARANTEES 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 "CE" CONFORM TO EMC DIRECTIVE EMC (2014/30/EU) AND THE DIRECTIVE RELATING TO LOW VOLTAGE (2014/35/EU) FORMULATED BY THE EUROPEAN COMMUNITY.

AGREMENT ART N° 98656P DU 8 JUILLET 1998

1. <u>GENERAL CHARACTERISTICS</u>

FEATURES

- Multi-frequency dialing (DTMF).

- Automatic on-hook facility.
- Instant off-hook or after a programmable number of rings.
- Memorised numbers can be programmed remotely by DTMF telephone.

- Several numbers can be linked in the event of a busy signal or no answer after a programmable time.

- Settings can be changed remotely using a conventional DTMF telephone, for example:

- Ringing type
- Ringing volume
- Loudspeaker Volume
- Automatic answer etc...

IMPORTANT ·

THIS CARD IS FITTED WITH A MICROPROCESSOR. CONNECTION TO THE TELEPHONE LINE AND TO THE MAIN. THE SET IS INITIALISED AND AN AUDIBLE SIGNAL IS AN AUDIBLE SIGNAL IS EMITTED.

THEY HAVE NUMEROUS PROGRAMMABLE FUNCTIONS AND ARE FACTORY-CONFIGURED FOR EVERYDAY USE.

Stations fitted with the hands-free card operate without any modification on public networks such as France Télécom. For correct operation on a private branch exchange (PBX), it is necessary to ensure that the following characteristics coincide with those of your PBX.

If this is not the case, make the necessary corrections using the programming tools.

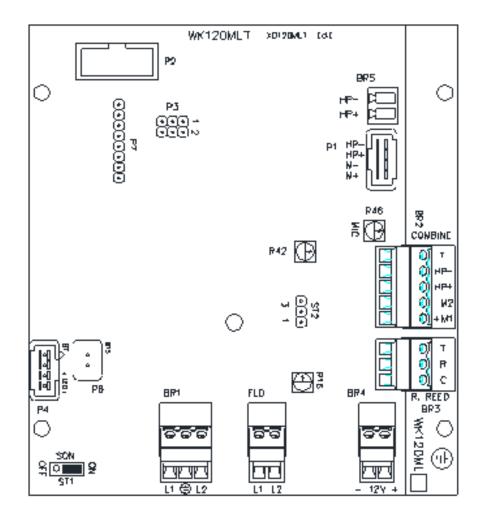
In the event of incompatibility, software can be run on request. Contact the manufacturer for more information.

1.1 TECHNICAL CHARACTERISTICS

•	Call voltage received from the PABX Ringing time: $1.5s \pm 0.5s$ Pause time: $3s \pm 2 s$	$> 35 V_{eff} 25Hz \text{ or } 50Hz \text{ Umax} = 80V_{eff}$ Imax = 0,05 A _{eff} ; Pmax = 1 W
•	Current in the set (off-hook position)	45mA (25mA minimum) Imax = 0,08 A _{DC} ; Pmax = 1,2 W
•	Terminal voltage (on-hook position)	48V (24V minimum) Umax = $60 V_{DC}$
•	Numbering system	DTMF
•	Invitation to dial tone Frequency: from 270 to 540Hz	Continuous tone detection time min 2 sec.
•	Busy tone Frequency: 300 to 500 Hz Beep sequence and pause over 10 seconds. Bip: 100 to 600 ms Pause: 100 to 600 ms (= at the bip)	Detection time 4-10 sec
•	Back Remote call tone Frequency: 350 to 500Hz Beep sequence and pause until remote off-hook Bip: 0.2sec. to 1.6 sec. Beep + pause cycle less than 6 seconds.	
•	Cadenced conversation release tone Frequency: 300 to 500 Hz Beep sequence and pause over 10 seconds. Bip: 100 to 600 ms Pause: 100 to 600 ms (= at the bip)	Detection time <u>4-10 sec</u>
•	Continuous conversation release tone Frequency: 300 to 500 Hz or 760 to 840 Hz Beep duration greater than 10 seconds.	Detection time <u>6-10 sec</u>

2. TELEPHONE CARD PRESENTATION

The telephone card 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...)



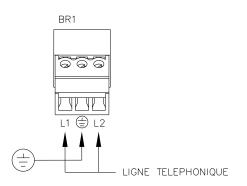
<u>NOTE</u> : DO NOT MOVE THE JUMPERS MARKS ST3.

This motherboard is totally compatible with the previous versions.

3. <u>CONNECTION OF THE TELEPHONE SET</u>

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".

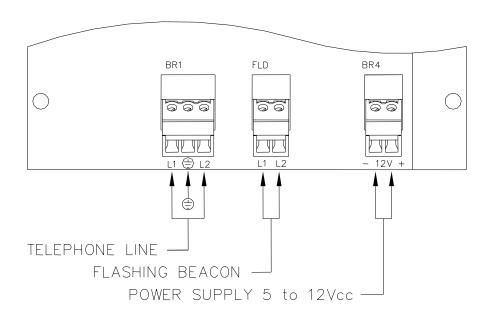


3.2 EARTH GROUNDED OF THE TELEPHONE SET

The electric earth grounded is executed either externally with the earth screw (situated on the lower face of the box) marked by the abbreviation \perp , or inside, on the connector \perp situated on the connector "BR1" of the motherboard.

3.3 3.3 CONNECTING OPTIONS - FLASH CARD / EXTERNAL POWER SUPPLY

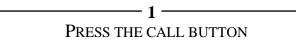
Flash light card* should be plugged on connector marked "FLD". Note: in some versions, this can be disconnected from the telephone card.



4. <u>USE OF 1-BUTTON TELEPHONES</u>

OPERATION: Pressing the call button connects to an extension number programmed beforehand (see programming section). If the number is programmed in the PABX (calling BC), there is no number to program in the extension, the operation remains identical to the case described below.

HOW TO MAKE A CALL



The red indicator is lighting and blink

When the called party answers, the red indicator becomes fixed lighted and you can start your communication. Please, 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 HANG UP AUTOMATICALLY

The red indicator turn off

HOW TO ANSWER A CALL

_____1 _____

PRESS THE CALL BUTTON OR LET THE TELEPHONE ANSWER AUTOMATICALLY

The red indicator turn on

Once you have take the line, talk in front of the telephone at a distance of approximately 20 cm. When the call is over, release the line:

_____ 2 _____

PRESS THE CALL BUTTON OR LET THE TELEPHONE ANSWER AUTOMATICALLY

the red indicator turn off

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5. <u>OPTIONS</u>

5.1 RELAY BOARD WK028CRG

This optional card, linked by a ribbon cable to the "P2" connector on the telephone card, enables remote control of relays from a remote device through the telephone line.

The factory-set remote control codes are 1 and 2. These codes must ALWAYS be surrounded by two *. Therefore, pressing the * 1 * keys on a remote station keypad will activate the first relay, and *2* will activate the second.

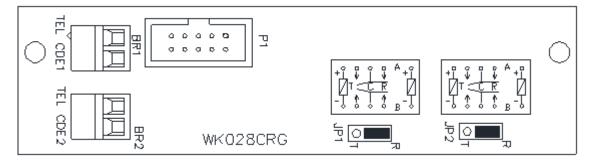
Using the keypad of a station equipped with a strike card has no effect on the local strike card.

In factory configuration, the duration of the remote controls is set to two seconds. The DTMF code * cancels the operation in progress. The remote control codes (number between 1 and 9999) and their durations (value between 00 and 94 seconds) can be modified (see chapter on programming the remote control duration).

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 jumpers :
 - T : relay closed when activated
 - R : relay open when activated



WK028CRG : 2 relays board

5.2 OPTION MP3 PLAYER

This option allows you to play a calming message from the moment you pick up the line until the called party answers the call. In multi-number mode, the MP3 Player will play continuously until one of the called parties answers the call.

The messages played are stored on a micro SD card on the top of the module and can be changed. Note that it is possible to record only two messages. To do this, press :

- Remove the micro SD card and connect it to your PC.
- Inside the card, delete the existing files and add your own.

Note: Files added must be in .mp3 format and must be called 0001.mp3 and 0002.mp3.

Finally, you can choose to broadcast one of the two messages using the *42xx* parameter:

Programming Code Mes	sCourant: *42xx*	Current MP3 Player message
Prog. usine	xx = 01	Message 1 from the MP3 Player
From	$\mathbf{x}\mathbf{x} = 00$	no message
to	xx = 02	Message 2 from the MP3 Player
Acknowledgement o	f receipt of post: *	



6.PROGRAMMING

Keys sequence to be made on the keypad of a remote telephone, DTMF type, in connection with the extension to be programmed. Caution: during programming, the presence of a busy signal may cause the extension to hang up automatically.

CAUTION

1- When you enter in programming mode, do not enter the access code a second time if you have not heard the validation "beep", because you risk to modify the parameter corresponding to the first two digits of the code.

To check that you are well entered in programming mode, enter the code * 6000 *. If you hear the extension identifier (one beep or several beeps depending on the identifier), this means that you are in programming mode, and you can now program your options. If you do not hear a beep, enter the access code to enter programming mode.

2- Programming is not guaranteed for extensions connected to digital telephone lines.

WARNING : BEFORE PROGRAMMING, ENTER THE ACCESS CODE

*	1	2	3	4	*
---	---	---	---	---	---

PROGRAMMING A SINGLE CALL NUMBER (M1)

Enter the following combination:

* 5 0 0 1 * # 1 1 # <n></n>	*	<n></n>	#	1	1	#	*	1	0	0	5	*	
---	---	---------	---	---	---	---	---	---	---	---	---	---	--

< N > call number from 1 to 15 digits.

When programming a memory, the #11# combination represents a continuous tone search at a frequency of 440 Hz \pm 100 Hz (standard) before dialling. If your PBX does not comply with the standard, you can replace the tone search with a 2 second pause. In this case, replace [#11#] with [#10#] in the sequence.

PROGRAMMING CALL NUMBERS (M0 TO M9)

Enter the following combination for each button:

*	5	0	0	<m></m>	*	#	1	1	#	<n></n>	*	
---	---	---	---	---------	---	---	---	---	---	---------	---	--

Memory assigned for 1 button phones is memory M1.

To program a number into memory, use the following combination: *5001* #11#<N>*

SETTING OF THE RECEPTION VOLUME

Enter the following combination:

*	1	4	0	<v></v>	*
	7 1	c 1 .	1 = (C		•

< V > Volume from 1 to 15 (factory setting = 5)

SETTING OF THE RINGER VOLUME

Enter the following combination:

*	1	6	0	<v></v>	*					
$\langle V \rangle$	< V > Volume from 1 to 1 (factory setting - 2)									

< V > Volume from 1 to 4 (factory setting = 3)

PROGRAMMING A SEQUENCE OF NUMBERS

To program several memories :

*	5	0	0	<m></m>	*	#	1	1	#	<n></n>	*
M = 1, 2,, 8 max											

N = 1 to 15 digit phone number

The sequence always starts with the base memory assigned to the button (M1) and stops at the first empty memory.

To program an empty memory (or delete a number), press :

* 5 0 0 <m> *</m>	*	*	*	<m></m>	0	0	5	*	
-------------------	---	---	---	---------	---	---	---	---	--

You must program the waiting times between memories

T1 between M1-M2 and

T2 between M2-M3, M3-M4 etc... if this is the case.

These times represent the waiting time if there is no answer before moving on to the next number.

For T1 type :

* 2 0	Т	Т	*
-------	---	---	---

TT represents the time-out value in seconds.

For a single programmed number TT = 00

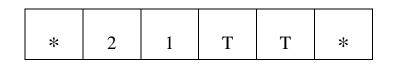
In the case of a sequence of 2 or more numbers, there are two possibilities:

a) hear what is happening on the line by programming no Current Message (*4200*)

b) hide what is happening on the line (no answer, busy etc...) until the called party goes off-hook, by a Current Message (*4201* or *4202*) and a flashing LED.

When the called party's voice is detected, the Current Message is switched off and the call is established. The LED lights up permanently, telling you that you are now on the line with your caller.

For T2 type :



SETTING OF THE NUMBER OF RINGS BEFORE AUTOMATIC OFF HOOK

In the factory, the telephone is programmed to go off-hook automatically after 3 rings. To change this number, press :

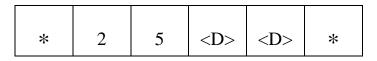


NN = 00 to 99

NN = 03 in Factory (automatic pick-up after 3 rings or by pressing the button) If N = 00 automatic off-hook (reserved for remote maintenance station). If N = 99 without automatic pick-up (response only by pressing the button).

PROGRAMMING THE DURATION OF THE FIRST REMOTE CONTROL

The factory setting for the duration of the first remote control is 02 seconds. To change this value, press :



DD = from 00 to 95

If DD = 00, the duration is indefinite, and the relay is deactivated only by pressing the * key or by the line break.

For the other values from 01 to 95, the duration is expressed in seconds, and the relay is deactivated when this duration runs out or by pressing the * key.

If DD = 99, the relay is activated when the line is seized and only deactivated when the line is paused. (Other programming options are described on page 20).

PROGRAMMING THE CODE FOR REMOTE CONTROLS

At the factory, the code for the first remote control is set to 1, and 2 for the second.

Note

A REMOTE CONTROL CODE CAN HAVE A VALUE FROM 1 TO 9998 WITH THE EXCEPTION OF 0599, 0600 AND 0989, 0990 WHICH ARE MANUFACTURER CODES IF IT IS A 4-DIGIT CODE, IT MUST NEVER HAVE THE SAME VALUE AS THE PROGRAMMING ACCESS CODE

As the remote control code is a 4-digit code, programming it requires 2 actions. Programming the thousands and hundreds, identified as M, C Programming the tens and units, identified as D, U

For M and C, type

*	2	6	<m></m>	<c></c>	*
•	2	0	<ivi></ivi>	\ U /	•

MC = from 00 to 99If M = 0, it is a 3-digit code If MC = 00, it's a 2-digit code

For D and U, type

DU =from 01 to 99 If MCD = 000, it is a 1-digit code

6. ADVANCED PROGRAMMING

The telephone set can be configured locally or remotely, according to the user's needs, using programming codes. Remote control codes can also be used to initiate specific actions. Generally, all these codes are 4-digit numbers framed by 2 stars (*), with the exception of call number memories. These functions can be accessed using an **"access code"** which can be personalized by the user.

The telephone responds to all valid codes with an acknowledgement corresponding to the code issued (see description below).

ATTENTION:

All programming codes are included with the telephone, but some can only be used if the telephone has the corresponding hardware or software options. For example: self-test, door release remote control, day/night ringing, multi-numbering etc...

All remote controls codes are included in the telephone set, but some are only useful if they are used by a remote maintenance station, while others are for the manufacturer's use.

The telephone set is delivered with a "factory" configuration.

Programming code list

When programming, codes must always be followed by 2 digits representing the size and always framed by 2 stars (*).

e.g.: program 3 rings before going off-hook, *1103*.

• Programming code Status : *10xx*		Hardware configuration
Factory settings:	xx = 00 $xx = 01$ $xx = 04$	1-button or keypad station 2-button station With handset: automatic dialing when hang off
Acknowledgeme	nt of receipt of post: *	
• Programming code Ringer : *11xx *		Number of rings before going off-hook
Factory settings:	Hands-free: $xx = 03$ Handset: $xx = 99$	3 Ringtones before going off-hook 99 The extension does not pick up
From To	xx = 00 $xx = 98$ $xx = 99$	No ring before off-hook 98 Ringtones before off-hook The phone doesn't pick up

Acknowledgement of receipt of post: *

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Note: with 00 ringing, the handset loudspeaker is deactivated.

• Programming code TOnLine: *12xx*		Talk time before auto hang-up
Factory settings : Hands-free : $xx = 04$ Handset : $xx = 00$		4 minutes to auto hang-up The telephone does not hang up automatically
and from to Acknowledgemen	xx = 00 xx = 01 xx = 99 nt of receipt of post: *	The telephone does not hang up automatically 1 minute to auto hang-up 99 minutes to auto hang-up
• Programming code	e TSilence : *13xx* Du	ration of Silence allowed before auto hang-up
Factory settings :	Hands-free : $xx = 30$ Handset : $xx = 00$	30 seconds before auto hang-up The telephone does not hang up automatically
•	xx = 00 xx = 10 xx = 99 nt of receipt of post: * stable frequencies, cadenc	The telephone does not hang up automatically 10 seconds before auto hang-up 99 seconds before auto hang-up ed or not, are not taken to be silence.
• Programming code	e VolHP: *14xx*	Loudspeaker volume
Factory settings :	Hands-free : $xx = 01$	Low volume (but enough!)
i detory settings .	Handset : $xx = 01$ Handset : $xx = 05$	Medium volume
From to Acknowledgeme <u>Note</u> : changes i	Handset : $xx = 05$ xx = 00 xx = 15 ent of receipt of post: *	
From to Acknowledgeme <u>Note</u> : changes i perceptible beyon	Handset : $xx = 05$ xx = 00 xx = 15 ent of receipt of post: * n volume on a short line	Medium volume Minimum volume Maximum volume
From to Acknowledgeme <u>Note</u> : changes i perceptible beyon	Handset : $xx = 05$ xx = 00 xx = 15 ent of receipt of post: * n volume on a short line nd that on a long line. e <i>EvolSonn</i> : *15xx*	Medium volume Minimum volume Maximum volume e are only perceptible from 00 to 06; they are
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From to Acknowledgeme <u>Note</u> : changes i perceptible beyon • Programming code Factory settings	Handset : $xx = 05$ xx = 00 xx = 15 ent of receipt of post: * n volume on a short line nd that on a long line. e <i>EvolSonn</i> : *15xx* : $xx = 00$ xx = 01 ent of receipt of post: *	Medium volume Minimum volume Maximum volume e are only perceptible from 00 to 06; they are Evolving ringtone Evolving ringtone deactivated
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to

Maximum volume

xx = 04

Acknowledgement of receipt of post: *

 Programming code <i>PBout</i>: *17xx* 		Pressed button time (without releasing) before taking line.
Factory settings	xx = 00	Immediate line connection
From to Acknowledgement of re	xx = 01 xx = 98 xx = 99 seceipt of post: *	Action delayed by 0.1 seconds Action delayed by 9.8 seconds No line connection
• Programming code <i>MCA</i>	ccessMenu: *18xx*	Thousands and hundreds of entry codes in the telephone menu.
Factory settings	xx = 00	
From to	$\begin{aligned} xx &= 00 \\ xx &= 99 \end{aligned}$	minimum value maximum value
Acknowledgement of re	ceipt of post: *	
• Programming code <i>DUA</i>	ccessMenu: *19xx*	Ten and unit of the entry code in the telephone menu.
Factory settings	xx = 00	terephone menu.
From to	xx = 00 $xx = 99$	minimum value maximum value
Acknowledgement of rec	eipt of post: *	
• Programming code <i>T1</i> : *	20xx*	MULTI-NUMBERING OPTION Time in seconds to switch from M1 to M2 to chain automatic dialling
Factory settings	xx = 00	No sequence of numbers
From to and	xx = 01 $xx = 98$ $xx = 99$	1 second on M1 before moving on to M2 98 seconds on M1 before switching to M2 No sequence of numbers
Acknowledgement of rea	ceipt of post: *	

• Programming code *T2*: *21xx*

MULTI-NUMBERING OPTION Time in seconds to go from M2 to M3, M3 to M4, up to M8 to chain automatic dialling.

Factory settings	$\mathbf{x}\mathbf{x} = 00$	No sequence of numbers
From to and	xx = 01 $xx = 98$ $xx = 99$	1 second on Mx before moving on to the next one 98 seconds on Mx before moving on to the next one No sequence of numbers
		1

Acknowledgement of receipt of post: *

Note: during the sequence of numbers subordinate to T2, it is the parity of T1 that determines the voice on the loudspeaker.

 Programming code AutoTest: *22xx* 		TELESURVEILLANCE OPTION
Factory settings	$\begin{aligned} xx &= 00 \\ xx &= 01 \end{aligned}$	No self-test Self-testing with TAMAT

Acknowledgement of receipt of post: *

Programming code *TypePushToTalk*: *23xx* •

TYPE OF OPERATION PUSH TO TALK

Factory settings	$\mathbf{x}\mathbf{x} = 00$	No Push to Talk
	$\mathbf{x}\mathbf{x} = 01$	Managing your own Push to Talk
	xx = 02	Commanded Push to Talk

Acknowledgement of receipt of post: *

Programming code *Flashing*: *24xx* ٠

Flashing duration in 1/100th of a second

270 mS de Flashing Factory settings $\mathbf{x}\mathbf{x} = 27$ $\mathbf{x}\mathbf{x} = \mathbf{0}\mathbf{0}$ and from xx = 01

xx = 99

No flashing, M1 memory **10mS** Flashing 990 mS Flashing

Acknowledgement of receipt of post: *

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to

• Programming code *Gâche*: *25xx*

FIRST RELAY OPTION

Remote control relay closing time after receiving code.

Factory settings	xx = 02	2 seconds to close
and from to and	xx = 00 $xx = 01$ $xx = 95$ $xx = 96$ $xx = 98$ $xx = 99$	No opening 1 second closure 95 seconds closure Relay closed during ringing Relay closed during ringing and online Relay closed online
		-

Acknowledgement of receipt of post: *

Note: the relay card is automatically recognized by the set; without it, this code has no effect. In all cases, hanging up places the relay in idle state.

• Programming code <i>M</i>	CGache: *26xx*	FIRST RELAY CONTROL OPTION Thousand and one hundred control codes.
Factory settings	xx = 00	No thousands or hundreds
From	$\mathbf{x}\mathbf{x} = 00$	0 mille, 0 cent
to	xx = 99	9 mille, 9 cents
Acknowledgement o		

Note: the relay card is automatically recognized by the terminal. If the relay card is not present, this code has no effect.

Programming code <i>DUgache</i> : *27xx*		FIRST RELAY CONTROL OPTION Decade and unit control code.
Factory settings	xx = 01	No tens, 1 value minimum
From	xx = 01	No tens, 1 value minimum
to	xx = 99	maximum value
Acknowledgement of	f receipt of post: *	

Note: the relay card is automatically recognized by the control unit; without it, this code has no effect. The door release remote control code is 1 to 4 digits long and can have a value from 1 to 9999. Non-significant digits must be set to 0 (zero). The remote-control code is therefore programmed twice (26xx and 27xx).

ATTENTION:

If you choose a 4-digit remote control code, it must be different from the "access code" (see below).

• Programming code *MCAcces*: *30xx*

Thousands and hundreds of user access codes

Factory settings	xx = 12	12
From	xx = 10	minimum value
to	$\mathbf{x}\mathbf{x} = 99$	maximum value
Acknowledgement of	f receipt of post: *	

Note: thousands must never have a value of 0 (zero).

 Programming code <i>DUAcces</i>: *31xx* 		User access code decade and unit
Factory settings	xx = 34	34
of	$\mathbf{x}\mathbf{x} = 00$	minimum value
to	xx = 99	maximum value
Acknowledgement o	f receipt of post: *	

Note: the user access code must contain 4 digits and can have a value between 1000 and 9999. It is therefore programmed in 2 times (30xx and 31xx).

CAUTION:

The user access code must be different from the door release remote control code (see above), otherwise the latter will no longer be recognised.

The user access code must never begin with 0 (zero) and must not be lost, otherwise access to programming becomes impossible.

• Programming code <i>CutLine</i> : *32xx*		Button pressing time (without releasing) hang up	to
Factory settings	$\begin{aligned} xx &= 20 \\ xx &= 00 \end{aligned}$	Delayed action of 2 seconds Immediate hang up	
From to and Acknowledgement	xx = 01 xx = 98 xx = 99 of receipt of post: *	Delayed action of 0.1 seconds Delayed action of 9.8 seconds No hang up by button	
• Programming code	e FreqSon: *33xx*	Base frequency Ringer (Depending on speaker type)	
Factory settings:	Hands-free : $xx = 00$ Handset : $xx = 02$	standard loudspeaker PIEZO	
From to	xx = 01 Freque xx = 02 Freque xx = 03 Fréque xx = 04 Freque xx = 05 Freque	xx = 01Frequency n° 1: 800 Hz and 1067 Hz alternating $xx = 02$ Frequency n° 2: 1067 Hz chopped $xx = 03$ Fréquence n° 3: 1067 Hz and 1333Hz alternating $xx = 04$ Frequency n° 4: 1333 Hz hashed $xx = 05$ Frequency n° 5: 1333 Hz and 800 Hz alternating	

Acknowledgement of receipt of post: *

Note: the factory-se gives the best ringin		epending on the type of speaker, is the one that	
• Programming code <i>TonMin</i> : *34xx*		Minimum on-hook tone frequency	
Factory settings	xx = 30	300 Hz	
From	$\mathbf{x}\mathbf{x} = 00$	0 Hz	
To Acknowledgement of	xx = 99 Freceipt of post: *	990 Hz	
• Programming code <i>To</i>	nMax: *35xx*	Maximum on-hook tone frequency	
Factory settings	xx = 50	500 Hz	
From	$\mathbf{x}\mathbf{x} = 00$	0 Hz	
to Acknowledgement of r	xx = 99 receipt of post: *	990 Hz	
• Programming code <i>Mi</i>	nBip: *36xx*	Minimum on-hook beep duration	
Factory settings	xx = 08	80 ms	
From	$\mathbf{x}\mathbf{x} = 08$	80 mS	
To Acknowledgement of r	xx = 99 receipt of post: *	990 ms	
• Programming code <i>Ma</i>	uxBip: *37xx*	Maximum on-hook beep duration	
Factory settings	xx = 60	600 ms	
From	xx = 08	80 mS	
To $xx = 99$ Acknowledgement of receipt of post: *		990 ms	
• Programming code Sec	ondGâche: *40xx*	SECOND REMOTE CONTROL OPTION RELAY Time taken for the remote-control relay to close after receiving the code.	
Factory settings and from to and	xx = 02 xx = 00 xx = 01 xx = 95 xx = 96 xx = 98 xx = 99	2 seconds to close No opening 1 second close 95 seconds closing time Relay closed during ringing Relay closed during ringing and online Relay closed online	

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Acknowledgement of receipt of post: *

Note: the relay card is automatically recognised by the set; without it, this code has no effect. In all cases, hanging up the handset places the relay in idle state.

essCourant: *42xx*	Current MP3 Player message
$\mathbf{x}\mathbf{x} = 00$	no message
$\mathbf{x}\mathbf{x} = 00$	no message
$\mathbf{x}\mathbf{x} = 02$	Message 2 from the MP3 Player
f receipt of post: *	
	xx = 00

• programming code *MCSecondGache*: *43xx*

SECOND RELAY CONTROL OPTION Thousands and hundreds control codes.

Factory settings	$\mathbf{x}\mathbf{x} = 00$	No thousands or hundreds
From	$\mathbf{x}\mathbf{x} = 00$	0 mille, 0 cent
То	xx = 99	9 mille, 9 cents
Acknowledgement of receipt of post: *		

Note: the relay card is automatically recognised by the terminal. If the relay card is not present, this code has no effect.

• programming code *DUSecondgache*: *44xx*

SECOND RELAY CONTROL OPTION Decade and unit control code.

Factory settingsxx = 01No tens, 1 value minimumFromxx = 01No tens, 1 value minimumToxx = 99Maximum valueAcknowledgement of receipt of post: **

Note: the relay card is automatically recognised by the control unit; without it, this code has no effect. The door release remote control code is 1 to 4 digits long and can have a value from 1 to 9999. Non-significant digits must be set to 0 (zero). The remote control code is therefore programmed twice (43xx and 44xx).

 Programming code SoftClip: *45xx* 	Config 2522 : Registre 06 SoftClip Setting and Noise monitor
Factory settings : Hands-free : $xx = 01$	Noise Monitor : OFF SoftClip RX: OFF SoftClip TX : ON
Handset : $xx = 03$	Noise Monitor : OFF SoftClip RX: ON SoftClip TX : ON
	Noise Monitor SoftClip RX SoftClip TX

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From	$\begin{aligned} \mathbf{x}\mathbf{x} &= 00\\ \mathbf{x}\mathbf{x} &= 01 \end{aligned}$	OFF OFF	OFF OFF	OFF ON
	$\mathbf{x}\mathbf{x} = 02$	OFF	ON	OFF
	xx = 03	OFF	ON	ON
	xx = 04	ON	OFF	OFF
	xx = 05	ON	OFF	ON
	xx = 06	ON	ON	OFF
То	xx = 07	ON	ON	ON

Acknowledgement of receipt of post: *

Note: definitions

- Noise Monitor: If ON, constant noise present on the microphone is cancelled on transmit.

- SoftClip RX: If ON, the receive signal compressor is activated.
- SoftClip TX: If ON, the transmit signal compressor is activated.

• Programming code <i>H.S.C</i> : *46xx*		Config 2522 : Re HandsFree Switc	gistre 09 hing Characteristic
Factory settings :	xx = 00	BGN offset : 120r Speed of voice sw	
BGN offset		speed of voi	ce switching
From	$\mathbf{x}\mathbf{x} = 00$	120mv	max
	$\mathbf{x}\mathbf{x} = 01$	120mv	moy +
	$\mathbf{x}\mathbf{x} = 02$	120mv	moy -
	$\mathbf{x}\mathbf{x} = 03$	120mv	min
	$\mathbf{x}\mathbf{x} = 04$	180mv	max
	$\mathbf{x}\mathbf{x} = 05$	180mv	moy +
	xx = 06	180mv	moy -
	$\mathbf{x}\mathbf{x} = 07$	180mv	min
	$\mathbf{x}\mathbf{x} = 08$	240mv	max
	$\mathbf{x}\mathbf{x} = 09$	240mv	moy +
	$\mathbf{x}\mathbf{x} = 10$	240mv	moy -
	$\mathbf{x}\mathbf{x} = 11$	240mv	min
	xx = 12	300mv	max
	xx = 13	300mv	moy +
	$\mathbf{x}\mathbf{x} = 14$	300mv	moy -
То	xx = 15	300mv	min

Acknowledgement of receipt of post: *

Note: definitions

- BGN offset: microphone sensitivity threshold.
- Speed of voice switching: speed of switching to transmit if the threshold is reached.

• Programming code *transmit Gain*: *47xx*

Config 2522 : Registre 10 Emission gains

Factory settings :	xx = 01	gain = 40 dB
From To	$\begin{aligned} xx &= 00 \\ xx &= 15 \end{aligned}$	Hands-free 39 dB 54 dB
Acknowledgement	of receipt of post: *	
• Programming code	VolCombi: *48xx*	Handset volume
Factory settings :	xx = 05	Medium volume
From To	$\begin{aligned} xx &= 00 \\ xx &= 15 \end{aligned}$	minimum volume maximum volume
Acknowledgemen	t of receipt of post: *	
• Programming code <i>TxGainCombi</i> : *49xx*		Handset emission gain
Factory settings:	xx = 05	gain = 35 dB
From To Acknowledgement	xx = 00 xx = 15 of receipt of post: *	30 dB 45 dB
	1 1	
• Programming code	BlocagePin : *73xx*	Block access to the terminal using a pin code
• Programming code Factory settings :	BlocagePin : *73xx*	Block access to the terminal using a pin code No pin lock

Programming of call number memories

The telephone has 10 16-digits memories, numbered from M0 to M9. In a telephone with button(s), from 1 to 8, only memories M1 to M8 are accessible, in case of number chaining (option), the time on M1 is T1, the time on M2 to M8 is T2.

In a keypad telephone, the 10 memories can be accessed directly by pressing keys 0 to 9 on the keypad. The M0 and M9 memories are subject to usage restrictions, especially when the set is associated with a remote monitoring station (option). M0 contains the geographical identifier and M9 the call number of the station.

If the remote monitoring option is not active and the chaining option is enabled, M0 and M9 can be used as call memories:

- M8 isn't followed by M9

- The time on M0 is T2
- The time on M9 is 20 seconds and cannot be changed.

With the number chaining option, several call lists can be created, for example:

- Program M1, M2, M3
- Nothing in M4
- Program M5, M6, M7

Pressing M1 will sequence M1, M2, M3. Pressing M5 will sequence M5, M6, M7. Other combinations are possible

• Programming code *Mémoires*: *50xx*

	xx = 00 to 09	Depending on the memory selected
followed by	#11#	Tone search
or	#10#	Wait 2 seconds before dialing
followed by	1 to 15 digits	Corresponding number(s)
ended with	*	Sequence terminator
Acknowledgement of	f receipt from extension:	*xx* Checksum of registered numbers
Factory setting	-	All blank memories
To delete a memory:	*50xx*	
	xx = 00 a 09	Depending on the memory selected.

Ended with * Acknowledgement of receipt: *00* Memory Depending on the memory selected. Sequence terminator checksum empty

REMOTE CONTROL CODES

To be used, most of these codes require the presence of a monitoring station or equipment able to display the DTMF codes circulating on the telephone line.

There are several code families identified by different prefixes:

- Reading numbers in memory : prefix 60
- Reading configuration settings : prefix 90
- Reading extension status : prefix 90
- erase remote controls : prefix 98
- Special remote controls : prefix 99
- Memory read code: *60xx*

xx = 00 to 09 Depending on the memory selected

Extension acknowledgement: *<N>* 1 to 16 characters or * if memory empty

Note: with the exception of M0, if it used as a geographical identifier, all programmed memories must begin with a tone search or a pause. These parameters are respectively recorded in the form of the DTMF code "B" for #11# and "A" for #10# but not transmitted on-line.

• Configuration read code: *90xx*

	xx = 10 to 19	
or	xx = 20 to 27	
or	xx = 30 to 37	
or	xx = 40 to 49	Depending on desired reading
Extension acknowledgement: *xx*		Programmed value

• Status reading code: ***90xx***

	$\mathbf{x}\mathbf{x} = 51$	Cumulative time in minutes of communication
or	$\mathbf{x}\mathbf{x} = 52$	Number of outgoing calls from the extension
or	$\mathbf{x}\mathbf{x} = 53$	Number of incoming calls from the extension
Extension acknowledgement: *xx*		Counter value at the time of the call

Note: the acknowledgement is expressed in hexadecimal.

xx = 60Global checksum of all numbers programmed in
memory (M0 to M9).

Acknowledgement of receipt from extension: *xx*, 00 if all memories are empty

Note: the acknowledgement is expressed in hexadecimal. The numbers stored in memory are DTMF code values from 0 to F increased by 10 in hexadecimal, i.e. the number 0148766262 preceded by a tone search is stored as follows:

1B 10 11 14 18 17 16 16 12 16 12 it has the checksum: E5			
xx = 61	Global checksum for all configuration parameters		
Acknowledgement of receipt of item: *xx* Note : the acknowledgement is expressed in he	xadecimal.		
<pre>xx = 62 Station acknowledgement: *xx*</pre>	Program version		
Note: the acknowledgement allows the station	to adapt to the software installed.		
xx = 63 Extension acknowledgement: *xxxx*	Programme CheckSum Indicates CheckSum (from v1.1d)		
• Delete remote control code: *98xx*			
$\mathbf{x}\mathbf{x} = 00$	Resetting whole device to factory configuration After about 1.3 seconds		
Acknowledgement of receipt of post: *			
<pre>xx = 02 Acknowledgement of receipt of post: *</pre>	Clearing memories M0 to M9		
<pre>xx = 04 Acknowledgement of receipt of post: *</pre>	Reset configurations to factory		
• Special remote control code: *99xx*			
$\mathbf{x}\mathbf{x} = 00$	Hang up the extension automatically		

INFORMATIONS

Remember:

All access to programming or remote controls is subject to a 4-digit user access code. On delivery, this code is: 1234.

• When the extension receives a 4-digit code (framed by 2 *), it compares it with the personalised access code:

- If it is different, no response.

Acknowledgement of receipt: None

- If it is identical, the terminal acknowledges receipt with its Geographical Identifier and opens a programming session.

- The G.I. is the content of the M0 memory, if it is empty returns *, or 1 to 16 DTMF code(s) of the user's choice.
- When a programming session is opened and a valid 4-digit code is entered, the terminal returns the corresponding acknowledgement. If this code is not recognised, the A.R. is # #.
- During programming, if you have any doubts when entering a code, press the * key several times and repeat the operation.
- In memory programming, only numeric keys 0 to 9 can be stored directly, the dial tone search (DTMF B code) is performed by #11#, a pause (DTMF A code) by #10#. The pause lasts 2 seconds. It is possible to place or link several pauses in a sequence of digits. In the same way, the other DTMF codes C,D,*,# can be recorded: #12# for C, #13# for D, #14# for *, #15# for #. This allows direct access to the France Télécom National Call Transfer service, for example, by programming memories.
- By default the program manages:
 - A 2-line, 16-character LCD display extension (see specific documentation).
 - A 098BRL relay extension (RATP type).

These cards can be connected or disconnected, while the station is powered on but the line is connected.

- The remote control card extension must, to be recognized, be connected before the station is connected to the telephone line. Otherwise, the corresponding program would not be executed and the operation of the station may be affected (voice weakened). Pressing the * key while the relay is active (timed or not) interrupts the sequence.
- Recognition of cadenced busy tone is done by:
- Frequency Analysis: 300≤F≥600 (Hz)
- Analysis of Duration of beeps/silence: 090≤D≥600 (mS)
- Reproducibility: for at least 4 seconds without interruption.
- Continuous busy tone recognition is done:
- By Frequency analysis: $300 \le F \ge 500 \text{ or } 760 \le F \ge 840 \text{ in Hz}$
- By analysis of the beep duration: $D \ge 6$ in secondes

- If the line is seized by the PL key on the keyboard or by a memory key with a stored number, after dialing

- If the line is seized using a memory key without a stored number, after pressing the key
- Recognition of continuous dial tone is done by :

- Frequency analysis:	270≤F≥540 (Hz)
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- Analysis of beep duration:

- During dialing from a memory, the microphone is neutralized (anti-piaf). It is reactivated after the correspondant picks up:
 - By voice recognition
 - By the absence of call return tone
- The "Flashing" key has 2 functions:
 - If the flash duration is different from 00, pressing the key executes a flash
 - If the flashing duration = 00, pressing the key determines the sending of memory M1
- Operation of a hands-free/combination station with keypad:

\Rightarrow line/handset jack
\Rightarrow hands-free button
\Rightarrow combined key
$l \Rightarrow$ line pause
-
\Rightarrow line/handset jack
\Rightarrow hands-free button
\Rightarrow hands-free
\Rightarrow line pause
_
\Rightarrow line/hands-free
\Rightarrow handset
\Rightarrow hands-free
\Rightarrow line pause

If the handset is not hang up while the extension automatically pauses the line, presence of a busy tone or conversation time exceeded, and if the handset is not replaced (vandalism, handset torn off) the station remains functional hands-free.

• In the case of a 1-number button extension and if you want the call to last indefinitely T1 is set to 00. Remember that ringback tones are not recognized as noise. Consequently, the Tsilence timer (30 seconds by default) will be dominant on T0 and the station hangs up after 30 seconds. It suits

NOTES



FRANCE 99 RUE ALEXANDRE FOURNY F 94500 CHAMPIGNY SUR MARNE

Tel : 33 01 48 76 62 62 Fax : 33 01 48 76 83 04

Internet : www.lelas.fr E-mail : lelas@lelas.fr

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