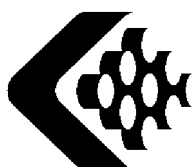
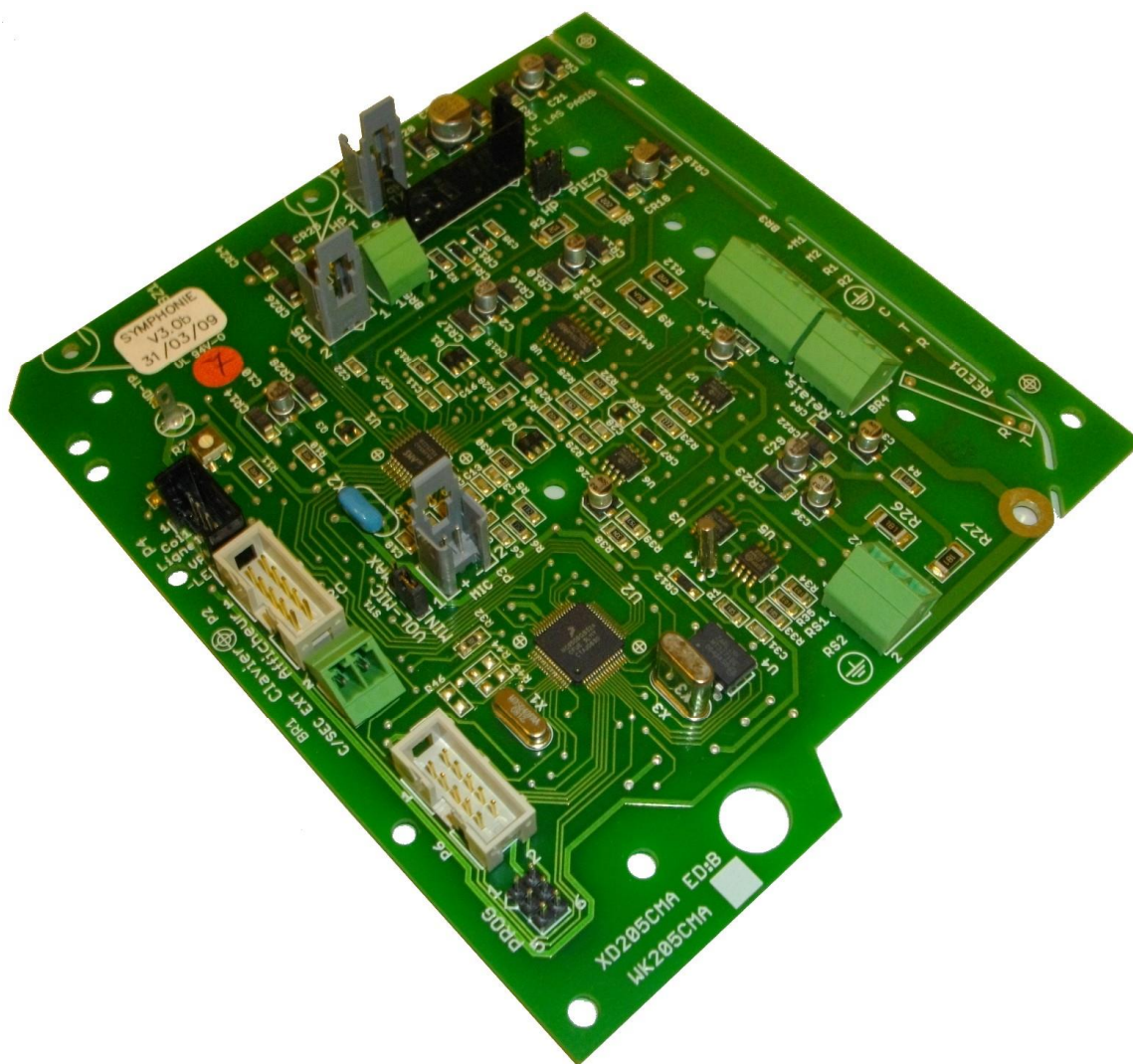


USER AND PROGRAMMING GUIDE TELEPHONES CARD WK205CMAATX

TELEPHONE 227A1 / 229A1 ó A2

ATEX -  II 2 GD



Groupe LE LAS

COMMUNICATING IN SAFETY

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TELEPHONE CARD WK205CMAATX

For TELEPHONE ATEX 227A1 / 229A1 ó A2

IMPORTANT

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

NOTE

CAUTION!

**EACH AND EVERY COMPONENT PART IS INTEGRAL TO THE METHOD
OF PROTECTION AND CANNOT BE MODIFIED IN ANY WAY WHATSOEVER,
INCLUDING THE CABLE ENTRIES.**

**THE GUARANTEE ONLY APPLIES WHERE THE PRODUCT IS INSTALLED AND OPERATED STRICTLY
IN ACCORDANCE WITH INSTRUCTIONS AS DEFINED IN THIS MANUAL**

**NO GUARANTEE CAN BE INVOKED IN THE EVENT OF A DETERIORATION RESULTING FROM
EXTERNAL FACTORS OR DUE TO LACK OF ADHERENCE TO USER INSTRUCTIONS**

**IN THE DESIRE FOR CONSTANT IMPROVEMENT, THE INFORMATION CONTAINED IN THIS
DOCUMENT AND THE CHARACTERISTICS OF THE EQUIPMENT MAY BE SUBJECT TO
MODIFICATIONS WIHTOUT PRIOR NOTICE**

EUROPEAN STANDARDS

**UNITS BEARING THE CODE "CE" CONFORM TO EMC DIRECTIVE (2014/30/EU)
AND THE DIRECTIVE RELATING TO LOW VOLTAGES(2014/35/EU)
FORMULATED BY THE EUROPEAN COMMUNITY**

**UNITS BEARING THE CODE "E x" CONFORM TO ATEX DIRECTIVE (2014/34/EU)
AND CONFORM TO EUROPEAN STANDARDS**

SEE INSTRUCTION GUIDE DELIVERED WITH TELEPHONE

1. GENERAL CHARACTERISTICS

1.1 GENERAL PRESENTATION

The telephone set is an explosionproof, wallmounted type , CB or ACB and comprises essentially:

- a casing protected to an enhanced level of safety, containing two intrinsically-safe printed circuit boards and a set of electronic components, resin-coated and encapsulated. The coated printed circuit board has on its upper side two "e" terminals for connection of external electrical circuits.
- an intrinsically safe (IP65) telephone handset of light alloy
- an optional second receiver, also intrinsically safe

The front cover closes on to a weatherproof seal via 3 hollow hexagonal or special (optionally vandal-resistant) screws (M6) requiring a suitable key to undo them.

1.2 FEATURES

For all telephones types :

- Multifrequency (DTMF) and pulse dialling (for ACB type telephones)
- Remote modification of settings from a typical DTMF telephone or from a maintenance station, for example:
 - Ringing type
 - Ringing volume
 - Loudspeaker volume
 - Type of dialling
- Automatic clear-down capability
- Offhook capability either immediately or after a programmable number of rings
- Tone security protection - microphone operable after internal dialling

For Hands free telephones :

- 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.
- Automatic off-hook

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.

The telephones operate without any modification to the PSTN lines. For perfect operation with a switch, it is necessary to ensure that the following characteristics match those of the switch.

In a case of incompatibility, special software can be provided. Contact the manufacturer for more information.

2. TECHNICAL FEATURES

SPECIAL CONDITIONS OF USE

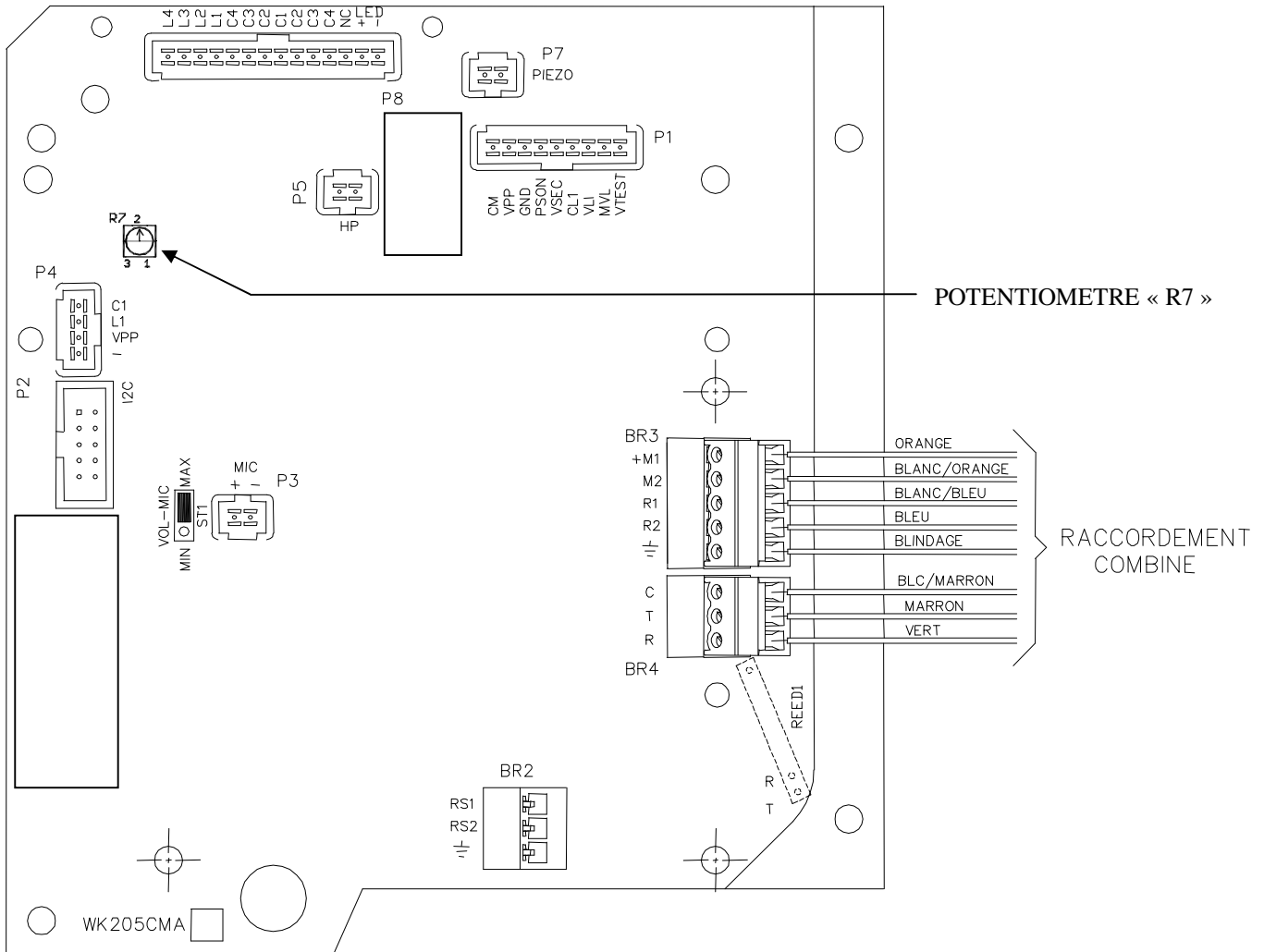
telephone set should be connected on a network line with the following particulars :


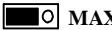


- Maximum voltage of use : $U_{max.} = 60V_{dc}$
- Maximum delivered current : $I_{max.} = 80mA$
- Maximum delivered power : $P_{max.} = 1.2W$

- Ringing voltage $> 35 V_{eff} < U_{sonnerie} < 80V_{eff}$ CA 25 ou 50Hz
Ringing duration = $1.5s \pm 0.5s$ $I_{max} = 0.05 A_{eff}$; $P_{max} = 1W$
Pause duration: $3s \pm 2s$
- Current in the telephone (off-hook position) 35mA (20Ma minimum)
 $I_{max} = 0.08A_{DC}$; $P_{max} = 1.2W$
- Voltage on the telephone terminals (on-hook position) 48V (24V minimum) $U_{max} = 60V_{DC}$
- Dialling system DTMF or pulse
- Dialling tone Frequency: 270Hz to 540Hz
Detection time min 2 sec
- Busy tone Frequency: 300Hz to 500Hz
Sequence of beeps and pauses for more than 10 seconds
Detection time 4-10sec
Beep: 100ms to 600ms
Pause: 100ms to 600ms
Must be equal to beep value
- Remote Ringing Tone Return Frequency: 350Hz to 500Hz
Sequence of beeps and pauses until off-hook
Beep: 0.2 sec to 1,6 sec.
Beep + Pause: <6 sec
- Cleardown Tone Frequency: 300 to 500Hz
Sequence of beeps and pauses for more than 10 seconds
Detection time 4-10 sec
Beep: 100ms to 600ms
Pause: 100ms to 600ms
Must be equal to beep value

3. TELEPHONE CARD LAYOUT (REF.: WK205 CMAATX)

FUNCTIONS AND SETTINGS OF JUMPERS

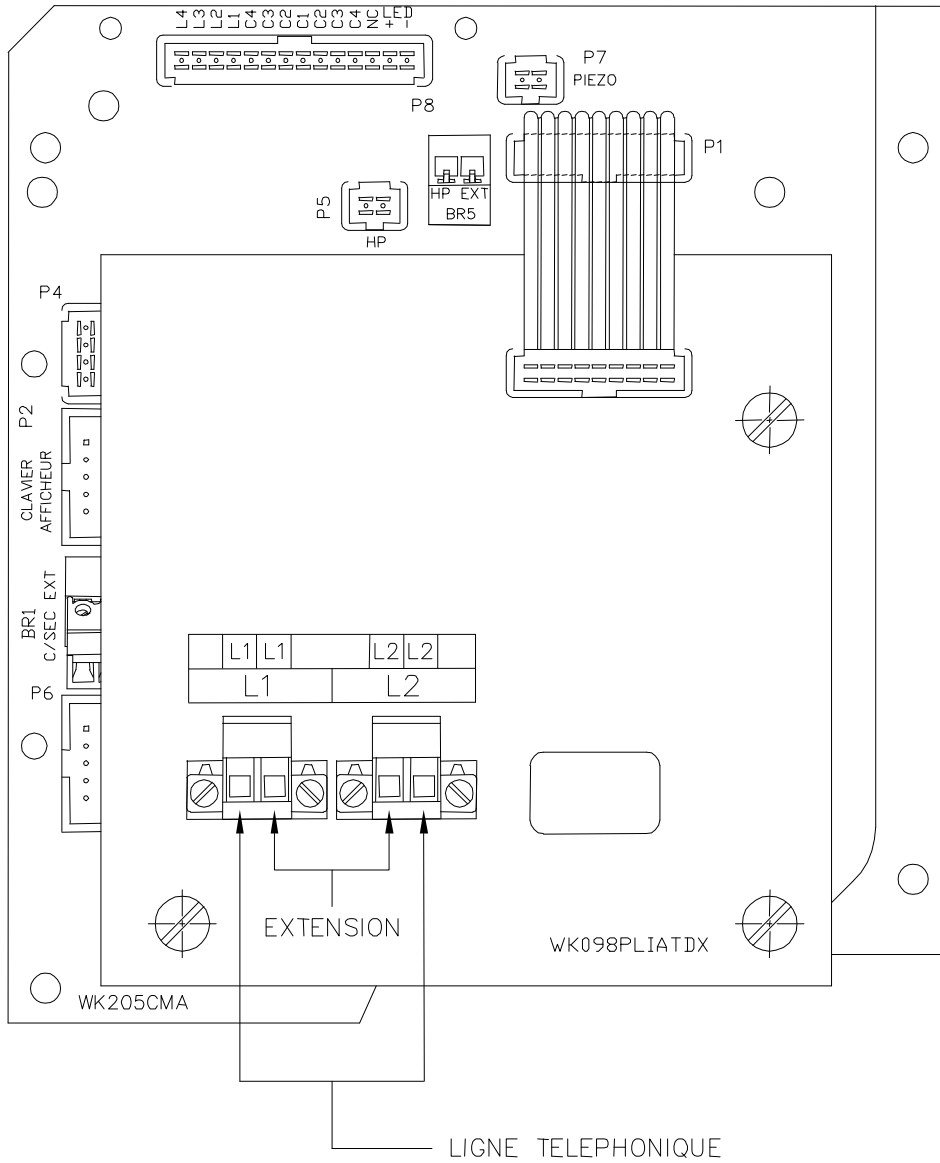


FUNCTIONS	REF	JUMPERS
HANDS-FREE MICROPHONE SENSITIVITY <ul style="list-style-type: none"> Sensitivity at 1 metre: place jumper on MAX Sensitivity at 30 cm: place jumper on MIN 	ST1	MIN  MAX MIN  MAX
NOISE THRESHOLD SETTING <ul style="list-style-type: none"> MIN setting: for quiet environment MAX setting: for very noisy environment 	R7	 MIN  MAX
NOTE: normal setting is carried out in the factory (according to design)		

4. CONNECTION OF TELEPHONES

4.1 CONNECTION OF THE TELEPHONE LINE

Connection of the telephone to the line is carried out on the intrinsic safety card WK098PLIATX via the connector which can be embedded and lockable.



Connect the line to terminals L1 and L2 which are doubled to connect extensions.

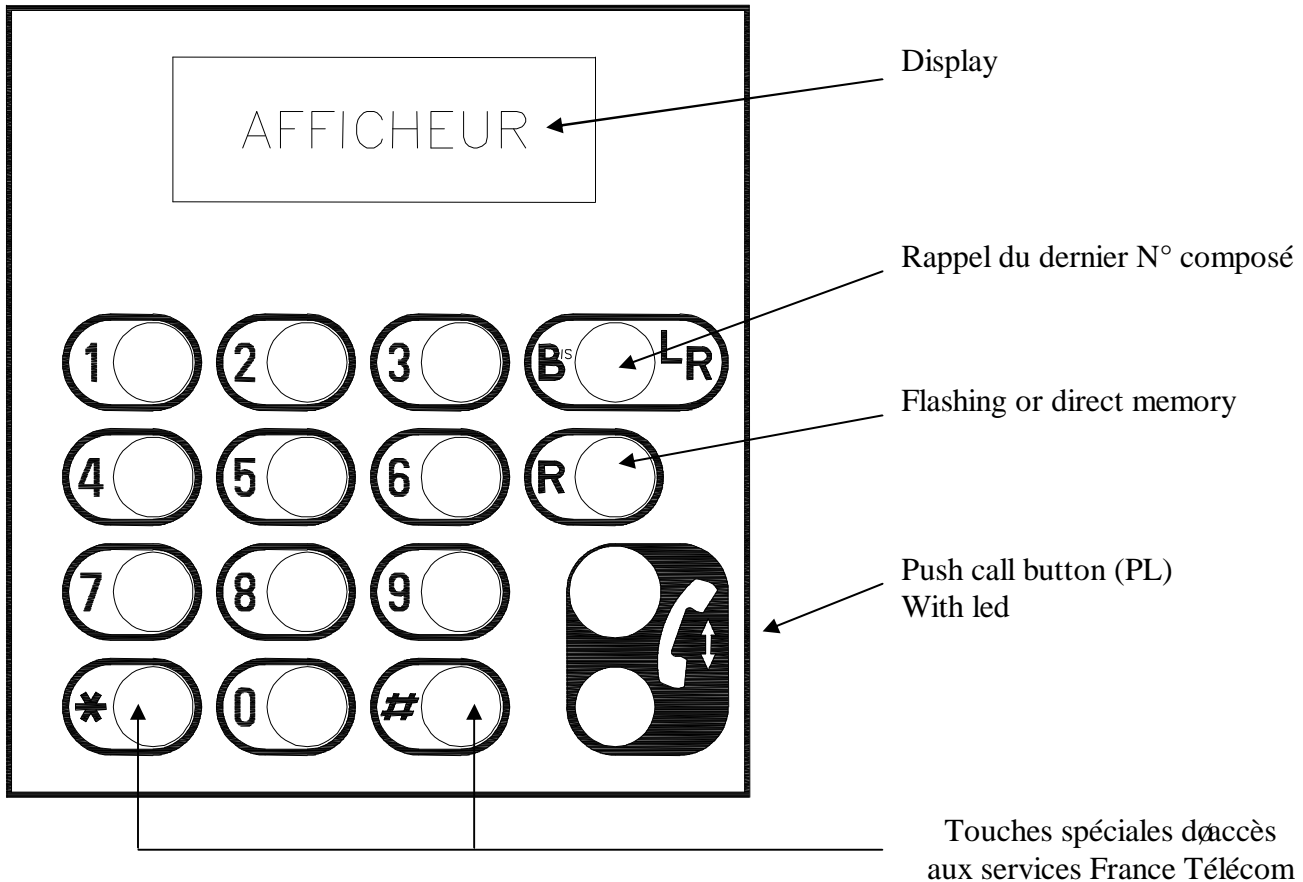
4.2 EARTHING THE TELEPHONE

Electrical earthing is carried out externally via the earth screw (situated on the lower part of the case) referenced by the sign \perp .

5. DESCRIPTION OF KEYPAD

15 buttons weatherproof keypad with on-line reassurance indicator.

A self-adhesive membrane placed between the buttons and the micro-contacts assures keypad weatherproofing.



NOTE : valid only for the hands free telephones set.

Programming 10 direct memory access for keys 0 to 9 is allowed see chapter « autodial numbers M0 to M9 » page 48.

- Remotely checked phones : 8 memories M1 to M8 available by pushing keys 1 to 8 without pushing call button.
- Phones without remotely checked facility : 10 memories M0 to M9 by pushing keys 0 to 9 without pushing call button.

NOTE

THE RECALL BUTTON  HAS A DOUBLE FUNCTIONS

ACCORDING TO PROGRAMMING:
FLASHING OR ONE-TOUCH MÉMOIRE M1

NOTE:

Facility to use \bar{R} and \bar{BIS} keys as memory keys after going \bar{o} ff-hook.

- When memory one is empty \bar{R} key is used as a flashing key, otherwise $\bar{o}M1$ value is dialled on line.
- When memory 2 is empty \bar{BIS} key is used as a redial function, otherwise $\bar{o}M2$ value is dialled on line.

. USAGE OF TELEPHONES WITH KEYPAD

The unit is a telephone set, it will be used under the entire responsibility of the user.

TO CALL

1
LIFT THE HANDSET

2
DIAL THE NUMBER

When the communication is finished, to release the line:

3
REPLACE THE HANDSET

TO ANSWER A CALL

When the telephone rings

1
LIFT THE HANDSET

When the communication is finished, to release the line:

2
DIAL THE NUMBER

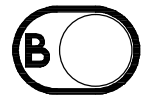
LAST NUMBER REDIAL

1
LIFT THE HANDSET

2
PRESS öB or öLR

When the communications is finished, to release the line

3
REPLACE THE HANDSET



6. USAGE OF CB TELEPHONES

The unit is a telephone set, it will be used under the entire responsibility of the user.

TO CALL

————— **1** —————
LIFT THE HANDSET

When the communication is finished, to release the line:

————— **2** —————
REPLACE THE HANDSET

TO ANSWER A CALL

When the telephone rings

————— **1** —————
LIFT THE HANDSET

When the communication is finished, to release the line:

————— **2** —————
REPLACE THE HANDSET

7. USAGE OF TELEPHONES WITH KEYPAD

The unit is a telephone set, it will be used under the entire responsibility of the user.

- Operation of a telephone alternating from handset to hands-free with keypad:

- Lift handset ⇒ take line/handset
- Push PL button ⇒ hands-free
- Push PL button ⇒ handset
- Replace handset ⇒ release line

or:

- Lift handset ⇒ take line/handset
- Push PL button ⇒ hands-free
- Replace handset ⇒ hands-free
- Push PL button ⇒ release line

or:

- Push PL button ⇒ take line/hands-free
- Lift handset ⇒ handset
- Replace handset ⇒ hands-free
- Push PL button ⇒ release line

If the handset is not replaced (vandalism, handset ripped out) the telephone remains operational hands-free

TO CALL

1

PUSH THE CALL BUTTON
OR LIFT THE HANDSET



The red indicator comes on

2

DIAL THE NUMBER

When the called party responds, speak in front of the telephone from a distance
Of approximately 20cm or into the handset

When the communication is finished, to release the line:

3

PUSH THE CALL BUTTON
OR REPLACE THE HANDSET
OR LIFT THE TELEPHONE
CLEAR DOWN AUTOMATICALLY



The red indicator goes off

NOTE : Programming 10 direct memory access for keys 0 to 9 is allowed see chapter « autodial numbers M0 to M9 » .

TO ANSWER A CALL

When the telephone rings

1

PUSH THE CALL BUTTON
OR LIFT THE HANDSET



The red indicator comes on

Speak in front of the telephone from a distance of approximately
20cm or into the handset

When the communication is finished, to release the line:

2

PUSH THE CALL BUTTON
OR REPLACE THE HANDSET
OR LET THE TELEPHONE
CLEAR DOWN AUTOMATICALLY



The red indicator goes off

LAST NUMBER REDIAL

1

PUSH THE CALL BUTTON
OR LIFT THE HANDSET



The red indicator comes on

2

PRESS **öBISö** or LR



When the called party responds, speak in front of the telephone from a distance
of approximately 20cm or into the handset

When the communication is finished, to release the line:

3

PUSH THE CALL BUTTON
OR REPLACE THE HANDSET
OR LET THE TELEPHONE
CLEAR DOWN AUTOMATICALLY



The red indicator goes off

FLASH RECALL

PRESS **õRö**



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

The **R** button has a double functions according to the programming : flashing or direct memory M1.(see chapter programming page 48) .

NOTE

**LENGTH OF CONVERSATION IS NOT LIMITED IN THE FACTORY.
IT CAN BE CHANGED BY PROGRAMMING.**

8. USAGE OF CB TELEPHONES

The 227A1 unit is a telephone set, it will be used under the entire responsibility of the user.

- Operation of a telephone alternating from handset to hands-free CB:

- Lift handset ⇒ take line/handset
- Push PL button ⇒ hands-free
- Push PL button ⇒ handset
- Replace handset ⇒ release line

or:

- Lift handset ⇒ take line/handset
- Push PL button ⇒ hands-free
- Replace handset ⇒ hands-free
- Push PL button ⇒ release line

or:

- Push PL button ⇒ take line/hands-free
- Lift handset ⇒ handset
- Replace handset ⇒ hands-free
- Push PL button ⇒ release line

If the handset is not replaced (vandalism, handset ripped out) the telephone remains operational hands-free.

TO CALL

1

PUSH THE CALL BUTTON
OR LIFT THE HANDSET



The red indicator comes on

When the called party responds, speak in front of the telephone from an approximate distance of 20 cm or into the handset.

When the communication is finished, to release the line:

2

PUSH THE CALL BUTTON
OR REPLACE THE HANDSET
OR LET THE TELEPHONE
CLEAR DOWN AUTOMATICALLY



The red indicator goes off

TO ANSWER A CALL

When the telephone rings

1

PUSH THE CALL BUTTON
OR LIFT THE HANDSET



The red indicator comes on

Speak in front of the telephone from an approximate distance of 20 cm or into the handset.

When the communication is finished, to release the line:

2

PUSH THE CALL BUTTON
OR REPLACE THE HANDSET
OR LET THE TELEPHONE
CLEAR DOWN AUTOMATICALLY



The red indicator goes off

9. BASIC PROGRAMMING

The sequence of buttons to be keyed on the keypad of a remote telephone, DTMF type, connected to the telephone to be programmed.

Take care during programming, the presence of busy tone can clear down the telephone automatically.

IMPORTANT: Before any programming, key the access code :

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

AUTODIAL NUMBERS (M1)

Key the combinaison:

*	5	0	0	1	*	#	1	1	#	<N>	*
---	---	---	---	---	---	---	---	---	---	-----	---

< N > autodial number from 1 to 15 digits.

During memory programming , the combination #11# represents the recognition of a continuous tone with a frequency of 440 Hz \pm 100Hz (standard) before dialling.

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.

AUTODIAL NUMBERS (M0 TO M9) (HANDS-FREE TELEPHONES)

Key the combinaison:

*	5	0	0	<M>	*	#	1	1	#	<N>	*
---	---	---	---	-----	---	---	---	---	---	-----	---

< M > number of memory from 0 to 9 affected with the buttons 0 to 9

With the exception of the stations has two buttons or button 2 is affected at the M5.

- Remotely checked phones : 8 memories M1 to M8 available by pushing keys 1 to 8 without pushing call button.
- Phones without remotely checked facility : 10 memories M0 to M9 by pushing keys 0 to 9 without pushing call button.

NOTE

FOR FULL KEYPAD TELEPHONE, THE MEMORY M1
CAN BE ALLOCATED TO THE  BUTTON

PROGRAMMING OF THE « R » BUTTON

For full keypad telephone, to assigne button  to memory M1 key the combinaison:

*	2	4	0	0	*
---	---	---	---	---	---

PROGRAMMING THE TYPE OF DIALLING OF THE TELEPHONE

Key one of the following combinations:

1/ For DTMF dialling and automatic clear down
Key the combinaison

*	1	0	0	2	*
---	---	---	---	---	---

2/ For pulse dialling and automatic clear down
Key the combinaison

*	1	0	0	3	*
---	---	---	---	---	---

3/ To suppress automatic clear down (usual case for DTMF handset telephone)
Key the combinaison

*	1	0	0	6	*
---	---	---	---	---	---

4/ To suppress automatic clear down (usual case for pulse handset telephone)
Key the combinaison

*	1	0	0	7	*
---	---	---	---	---	---

RECEIVE VOLUME ADJUSTMENT (HANDS-FREE TELEPHONES)

Key the following combination:

*	1	4	0	<V>	*
---	---	---	---	-----	---

< V > Volume from 0 to 9 (factory setting = 5)

RINGING VOLUME ADJUSTMENT

Key the following combination:

*	1	6	0	<V>	*
---	---	---	---	-----	---

< V > Volume from 1 to 7(factory setting = 7)

PROGRAMME A NUMBER CHAIN (HANDS-FREE TELEPHONES)

For the programming of several memories, key the combinations:

*	5	0	0	<M>	*	#	1	1	#	<N>	*
---	---	---	---	-----	---	---	---	---	---	-----	---

M (memory) = 1, 2, ..., 8 max

N= Call number up to 15 digits

The chain always starts with the basic storage assigned to the button and stop at the first empty memory.

To program a memory empties (or to erase a number) it is necessary to type:

*	5	0	0	<M>	*	*
---	---	---	---	-----	---	---

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

These times are the intervals in the event of no-answer

Before dialling the next number.

For T1 key :

*	2	0	T	T	*
---	---	---	---	---	---

TT is the time in seconds. If only one number TT=00

If chaining 2 or several numbers, 2 choices are possible :

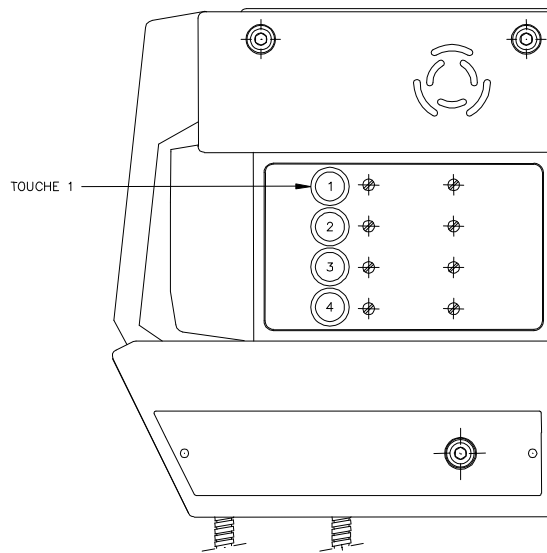
a) to hear what actually happens on the line : program T1/T2 with even number (e.g., :30 sec)

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.)

For T2 key :

*	2	1	T	T	*
---	---	---	---	---	---

10. USER MANUAL WITH MEMORY FACILITY



PROGRAMMING MEMORIES :

- From a distant unit call
- When the telephone rings, lift the handset
- From the distant unit enter programming mode (def *1234*), and wait for the acknowledge bip.
- To programm **memory 1**, dial *5001*xxxxxxxx* (where xxxxxxxxxxx is the phone number to be dialed), a acknowledge bip will be send.
- To programm **memory 2**, dial *5002*xxxxxxxx* (where xxxxxxxxxxx is the phone number to be dialed), a acknowledge bip will be send.
- To programm **memory 3**, dial *5003*xxxxxxxx* (where xxxxxxxxxxx is the phone number to be dialed), a acknowledge bip will be send.
- To programm **memory 4**, dial *5004*xxxxxxxx* (where xxxxxxxxxxx is the phone number to be dialed), a acknowledge bip will be send.
- Go on-hook on both units.

TEST OF THE STORED MEMORIES :

- Go off-hook
- Press « **1** » **button** and check the called number is the right number.
- Go on-hook

- Go off-hook
- Press « **2** » **button** and check the called number is the right number.
- Go on-hook

- Go off-hook
- Press « **3** » **button** and check the called number is the right number.
- Go on-hook

- Go off-hook
- Press « **4** » **button** and check the called number is the right number.
- Go on-hook

11. MAINTENANCE

Telephones require little maintenance to remain in excellent working order.
Carry out the maintenance below if necessary.

EXTERNALLY

Clean with a soft damp rag.

If a high-pressure water jet (preferably 50 bars) is used, this should be done with a distance of about 1m50 between the telephone and the hose.

INTERNALLY

The interior of the telephone requires no maintenance. Do not pour any liquid into the telephone.
Check the weatherproofing seals and that they are in place.

12. IN THE EVENT OF A PROBLEM

Before consulting the after-sales service, we advise you to check the following points:

LINE OR DIALLING PROBLEM

- Check the telephone line connection on the connector terminal
- Check that the button is not jammed by a foreign object.

TRANSMISSION PROBLEM

- If transmission from the telephone is weak, check that the microphone holes are not blocked by a foreign object.
- Check the setting of the jumper ST1.

RECEPTION PROBLEM

- If telephone reception is weak, adjust the receive volume to the level required

After having checked the precedent points and if problem is not solved, please return the unit to the manufacturer at the following adress :

LE LAS
34/36 RUE ROGER SALENGRO
F94134 FONTENAY SOUS BOIS - FRANCE

IMPORTANT

**ANY REPAIR OR MODIFICATION OF THE UNIT BY THE USER IS NOT ALLOWED
WITHOUT A FORMAL MANUFACTURER AGREEMENT.**

13. ADDITIONAL PROGRAMMING

- The telephone can be configured, locally or remotely, for user requirements by programming codes. The most usual programming procedures are described in Section 8.1 Basic Programming.
- Other programming options, available to the user, are described in the present chapter. The remote-control codes facilitating particular functions are listed below. As a rule, all these codes are 4-digits enveloped by two stars (*), with the exception of autodial number memories.
- These functions are accessed by an "access code" which can be specific to the user.
- Programming code **STATUS**

10xx Hardware configuration

For each function a value (xx) is designated

xx = 00	DTMF dialling
xx = 01	Pulse dialling
xx = 02	No direct memory access
xx = 04	No cleardown on tone

The sum of these values determines the overall configuration.

Example:

⇒ *1000* = DTMF dialling + access to memory 0-9 on keying the corresponding button on the keypad + automatic cleardown on busy tone.

⇒ *1007* = Pulse dialling + no memory access + no automatic cleardown.

- Programming code **Ringin***g*

	11xx	Number of rings before auto-answer
	xx = 00	No ringing before auto-answer
Up to	xx = 98	98 rings before auto-answer
Factory setting	xx = 99	The telephone does not auto-answer

Note: 00 ringing, reserved for the remote diagnostics system.

- Programming code **Time On-Line**

	12xx	Duration of conversation before auto-cleardown
Factory setting	xx = 00	The telephone is not limited to any duration
	xx = 04	Auto-cleardown after 4 minutes
Up to	xx = 99	Auto-cleardown after 99 minutes

- Programming code ***Time Silence***

	13xx	Length of Silence prior to auto-cleardown
Factory setting	xx = 00	The telephone does not clear down on silence
Example	xx = 30	Auto-cleardown after 30 seconds
Up to	xx = 99	Auto-cleardown after 99 seconds

Note: steady frequency tones, whether cadenced or not, are taken as silence.

- Programming code ***Ring Modulation***

	15xx	Type of ringing modulation
Factory setting	xx = 00	Pure frequency
	xx = 01	Mixed frequencies

- Programming code ***Push Button***

	17xx	Continuous time-button M pressed before line taken
Factory setting	xx = 00	Line taken immediately
Up to	xx = 98	Action deferred 9.8 seconds
If	xx = 99	button disabled

ATTENTION

DIRECT MEMORY ACCESS BY « R » BUTTON AND DIALLING CHAIN IS ONLY AVAILABLE IN HAND-FREE MODE

- Programming code ***T1: CHAINING MODE***

	20xx	Time in seconds before passing from M1 to M2 to chain autodialling
Factory setting	xx = 00	No number chaining
Up to	xx = 99	99 seconds on M1 before passing to M2

Note: during number chaining, there are two options - if T1 is an even number the loudspeaker reproduces the telephony on the line (dialling-tone, busy, dialling etcí). If T1 is an odd number the loudspeaker generates a cadenced calming tone and the indicator flashes to the same rhythm.

- Programming code ***T2: CHAINING MODE***

	21xx	Time in seconds before passing from M2 to M3, M3 to M4, up to M8 to chain autodial numbers
Factory setting	xx = 00	No number chaining
Up to	xx = 99	99 seconds on MX before passing to the next

Note: during the chaining of numbers in T2, it is the parity of T1 which determines the telephony on the loudspeaker.

Programming code ***Flashing***

	24xx	Duration of Flashing in hundredths of a second
Factory setting	xx = 27	270mS of Flashing
	xx = 00	No Flashing, button R becomes direct memory M1
Up to	xx = 99	990mS of Flashing

• Programming code ***TH Access***

	30xx	Thousands/hundreds of User Access Code
Factory setting	xx = 12	12
	xx = 10	Minimum value
Up to	xx = 99	Maximum value

Note: The Thousands must never have 0 (zero) as a value.

• Programming code ***TU Access***

	31xx	Tens and units of User Access Code
Factory setting	xx = 34	34
	xx = 00	Minimum value
Up to	xx = 99	Maximum value

Note: the User Access Code must comprise 4 digits, its value can be between 1000 and 9999. It is therefore programmed in 2 steps (30xx and 31xx).

CAUTION!

**The User ACCESS CODE must neither begin with 0 (zero)
nor be lost or access to programming will be impossible.**

• Programming Code ***Cut Line***

	32xx	Continuous time button to be pressed for line cleardown
Factory setting	xx = 20	Action deferred 2 seconds
	xx = 00	No cleardown by pressing button
Up to	xx = 98	Action deferred 9.8 seconds
If	xx = 99	Cleardown disabled

• Programming code ***MinTone***

	34xx	Minimum cleardown tone frequency
Factory setting	xx = 30	300 Hz
	xx = 00	0 Hz
Up to	xx = 99	990 Hz

• Programming code ***MaxTone***

	35xx	Maximum cleardown tone frequency
Factory setting	xx = 50	500 Hz
	xx = 00	0 Hz
Up to	xx = 99	990 Hz

- Programming code *Memories*

50xx

xx = 00 to 09 According to memory selected

followed by #11# Seeks tone

or #10# 2-second pause before dialling

followed by 1 to 15 digits Desired Autodial number

terminated by * Sequence terminator

Factory setting All memories blank

To erase a memory:

50xx

xx = 00 to 09 According to memory selected

terminated by * Sequence terminator

REMOTE CONTROL CODES

- Remote control code *Test*

97xx

xx = 00 Test microphone and loudspeaker

Telephone acknowledgement:

1-second transmission of frequency of 1244Hz

followed by:

1-second transmission of frequency of 622Hz

Note: at the end of this remote control sequence the telephone loudspeaker is cut.

- Remote control code *Erase*

98xx

xx = 00 Return telephone to factory setting

Telephone acknowledgement:

* After about 1.3 sec

xx = 02 Memories M0-M9 erased

- Remote control code *Special*

99xx

xx = 00 Clear down the telephone automatically

xx = 01 Reinstate loudspeaker

Note: this remote control code is used to reactivate the telephone loudspeaker when it has been cut by a loudspeaker test (*9700*)

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