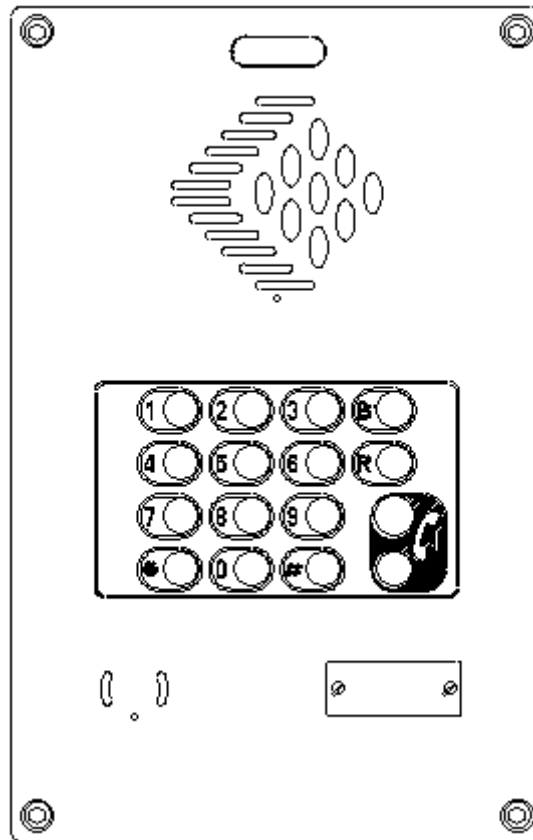


USER GUIDE AND INSTALLATION MANUAL
WEATHERPROOF « HANDS FREE » TELEPHONE
DIA-376



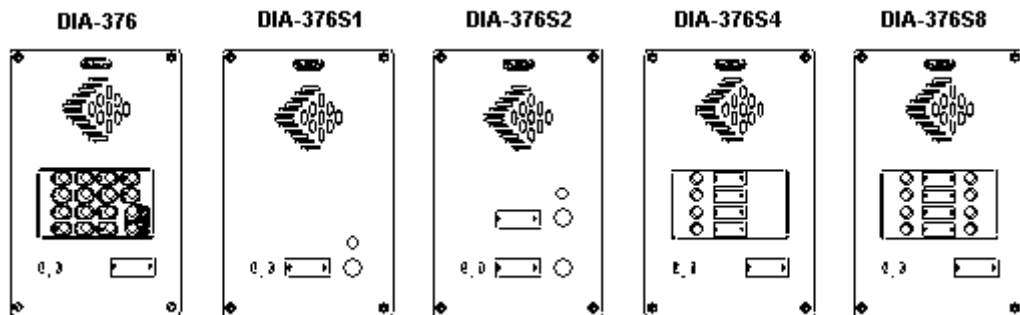
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WEATHERPROOF TELEPHONE DIA-376 AND VARIANTS

1. PRESENTATION

1.1 TELEPHONE TYPES



DIA-376 WITH KEYPAD

DIA-376S1 WITH 1 BUTTON

DIA-376S2 WITH 2 BUTTONS

DIA-376S4 WITH 4 BUTTONS

DIA-376S8 WITH 8 BUTTONS

1.2 GENERAL CHARACTERISTICS

EQUIPMENT FOR INDUSTRIAL SITES « HANDS FREE » WEATHERPROOF TELEPHONES SERIES DIA-376

DEGREE OF PROTECTION

IP66 – DIA-376

NOTE

THIS PRODUCT CONFORMS TO IP66 (MODEL 376)
WEATHERPROOFING CLASSIFICATION

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 “ CE ” CONFORM TO EMC DIRECTIVE EMC (89/336/EEC)
AND THE DIRECTIVE RELATING TO LOW VOLTAGE (73/23/EEC) FORMULATED BY
THE EUROPEAN COMMUNITY.

UK BABT APPROVAL

UK BABT APPROVAL No S/4130/3/Y/504612
REN (RINGING EQUIVALENCE NUMBER) = 1

1.3 CONTENTS OF THE PACKAGE

The equipment you have received comprises :

- a telephone set
- a user manual
- a set of labels
- cable entries

1.4 GENERAL DESCRIPTION OF DIA-376 TELEPHONE

The « Hands free » weatherproof telephones are Central Battery (CB) or Automatic Central Battery (ACB) telephones without handset which can be used in centrally powered networks or installations within the voltage limits permitted by our equipment (see technical characteristics para.1.5 below).

These telephones are equipped with:

- A weatherproof loudspeaker
- A weatherproof and vandal-resistant « Electret » type microphone
- An electronic circuit card
- An on-line LED
- A keypad with function keys
- 1 button for S1 version
- 2 buttons for S2 version
- 4 buttons for S4 version
- 8 buttons for S8 version

FEATURES

- Pulse/Tone dialing.
- 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
 - Dialing type
 - Automatic answer etc...

1.5 TECHNICAL CHARACTERISTICS OF DIA-376 TELEPHONE

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.

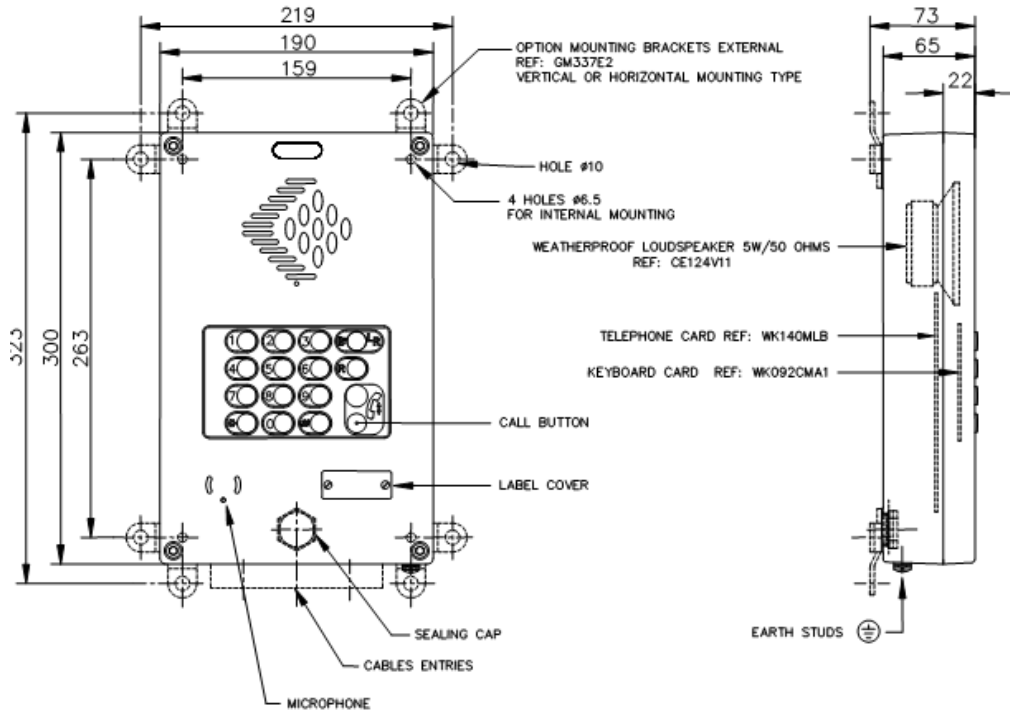
TECHNICAL CHARACTERISTICS

- 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)
- Dialing system DTMF or Pulse
- Dialing 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 - 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

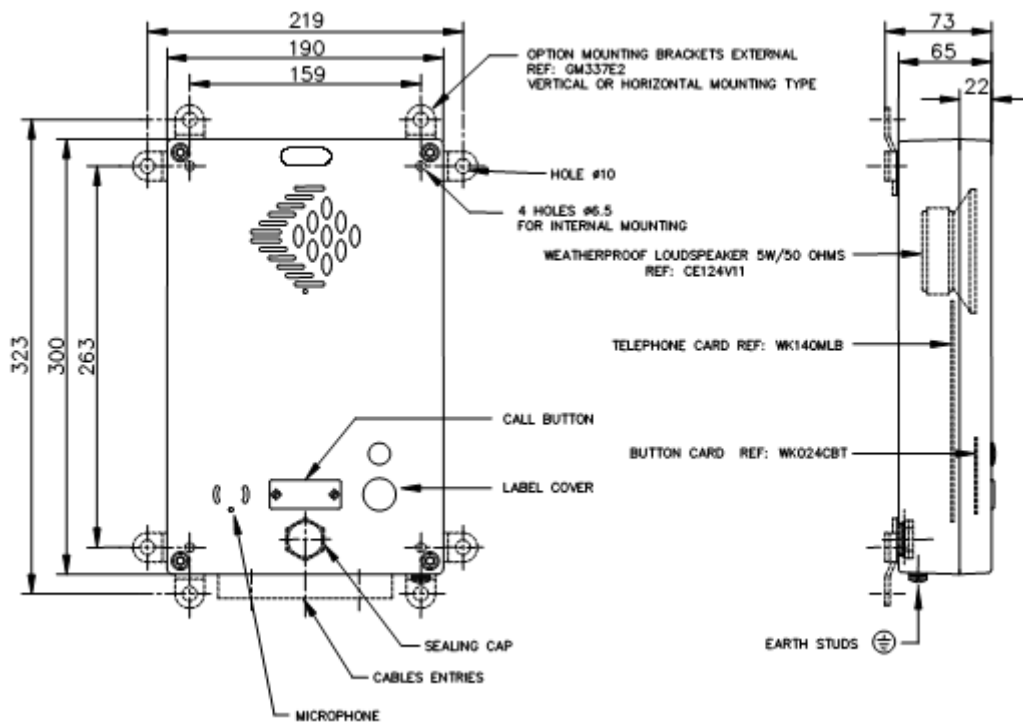
1.6 DESCRIPTION OF DIA-376 TYPE TELEPHONE

CB or ACB type weatherproof (IP66) wall mounted telephone set, comprising a light metal back-case and front cover, protected by EPIKOTE paint. The front cover which pivots at up to 180° and is removable, closes on to a weatherproof seal via two screws acting as hinges and two hollow hexagonal retention screws or special (optionally vandal-resistant) screws. A special key is needed to undo these screws.

FULL KEYPAD TELEPHONE SET



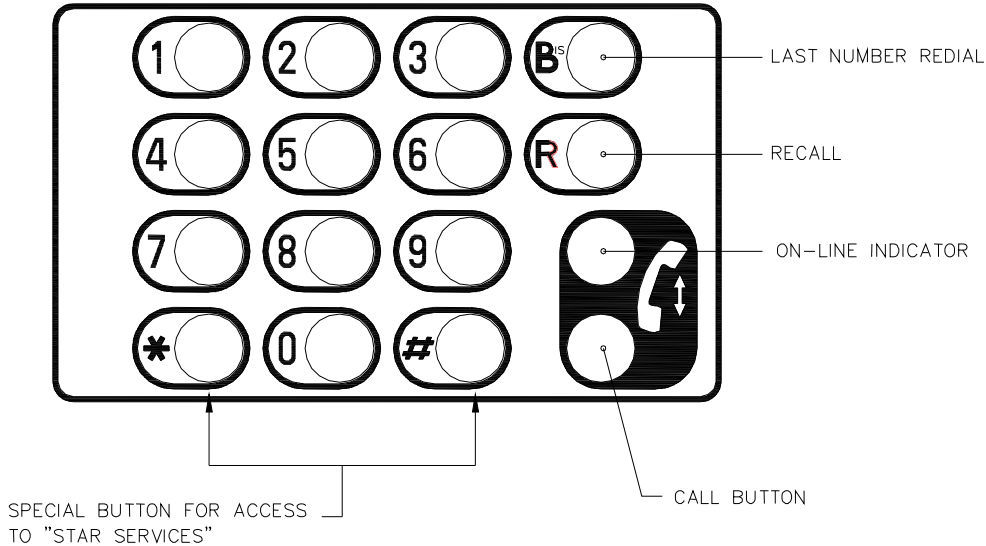
1 BUTTON TELEPHONE SET



1.7 DESCRIPTION OF KEYPAD

15 button weatherproof keypad with on-line reassurance indicator.

A self-adhesive membrane placed between the buttons and the micro contacts assures keypad weatherproofing. Legend and layout are identical for both telephone sets.



NOTE : Programming 10 direct memory access for keys 0 to 9 is allowed see chapter « autodial numbers M0 to M9 » page 22.

- 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 THREE FUNCTIONS

ACCORDING TO PROGRAMMING:

FLASHING OR ONE-TOUCH MEMORY M1 OR MUTING MICROPHONE

NOTE :

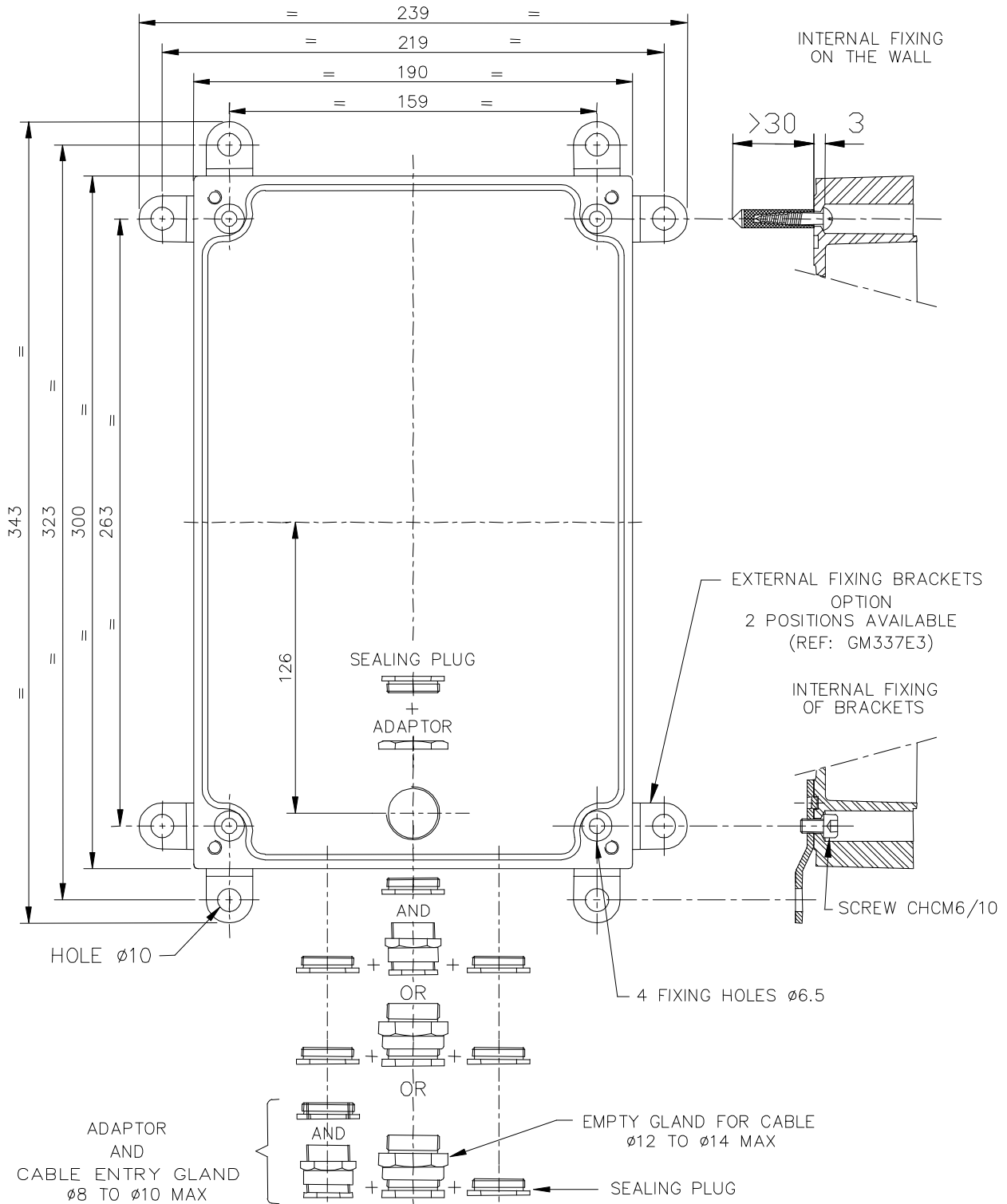
A label kit is supplied with the telephone set in a plastic sachet.

You can personalize these labels with a text of your choice.

For this you have a special paper with protective glass cover or a black dilophane black/white label to be engraved. Each function is described separately on page 16.

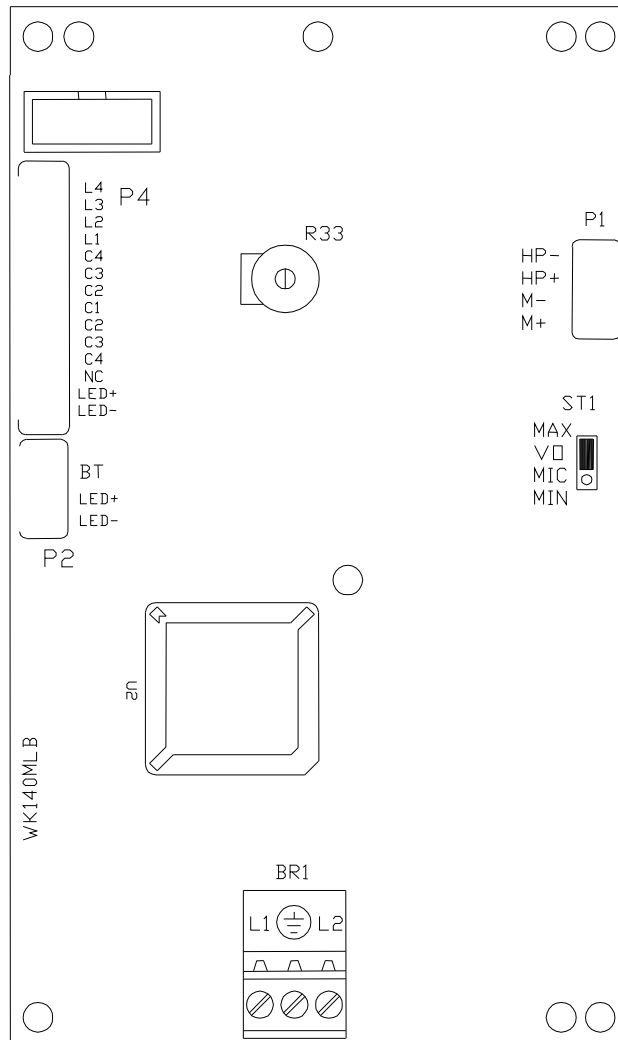
2. INSTALLATION OF THE TELEPHONE





2.1 INSTALLATION OF DIA-376 CABLE ENTRIES ASSEMBLY



3. LAYOUT OF THE TELEPHONE CARD

3.1 FUNCTIONS AND JUMPER SETTINGS



FUNCTIONS	REF	JUMPERS
SENSITIVITY OF THE HANDS FREE MICROPHONE Sensitivity up to 1m Sensitivity up to 30cm	ST1	MIN  MAX
		MIN  MAX
RECEPTION LEVEL ADJUSTMENT Minimum setting : quiet location Maximum setting : noisy location NOTE : normal setting is carried out in factory (see drawing)	R33	MIN 
		MAX 

4. CONNECTION OF THE TELEPHONE SET

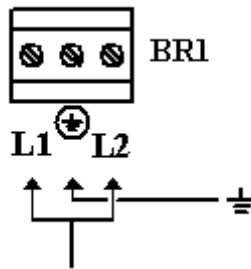
4.1 OPENING THE TELEPHONE SET

To gain access to the circuit board, unfasten the 4 fixing screws in the front cover of the case using Allen key No 5 for the DIA-376 weatherproof telephone set.

4.2 CONNECTION OF THE TELEPHONE LINE

The connection of the unit to the telephone line is carried out on printed circuit board with the plug-in connector reference « BR1 ».

Connect the telephone line to the terminals L1 and L2 of the connector « BR1 ».



GROUNDING THE TELEPHONE SET

Electrical grounding is carried out either externally via the grounding screw (situated at the bottom of the case) indicated by the sign \perp or internally on the terminal \perp situated on the « BR1 » connector on the telephone card.

A gas discharge tube is located on the card, to discharge possible overloads to earth.

5. USAGE OF SINGLE-BUTTON (S1) / MULTI-BUTTON (S2, S4, S8) **TELEPHONE**

OPERATION : Each button dials a pre-programmed telephone number (see chapter on programming page 22)

HOW TO MAKE A CALL

1

PRESS THE CALL BUTTON (S1 VERSION)
OR DESIRED CALL-BUTTON (S2, S4, S8)

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.

6. USAGE OF THE TELEPHONE WITH FULL KEYPAD

HOW TO MAKE 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.



HOW TO ANSWER A CALL

When the telephone rings

1

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



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
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 B



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 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.

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, program 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.

7 RELAY BOARD – DOOR ENTRY / PUBLIC ADDRESS

- This optional card connected via a flat ribbon cable to telephone card , 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. Wherever a double relay card is used, the second relay is activated by code *2*, by adding 1 to the first relay code value.

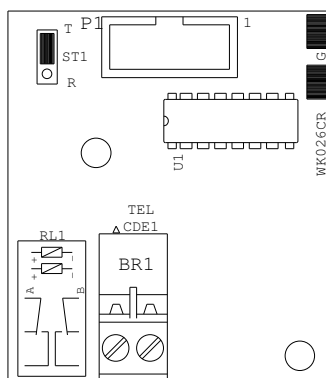
Keying this code on the keypad of a telephone equipped with a relay board will not activate its own relay.

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

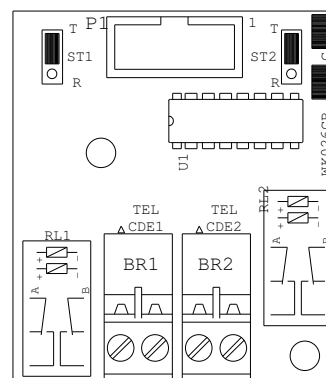
NOTE

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



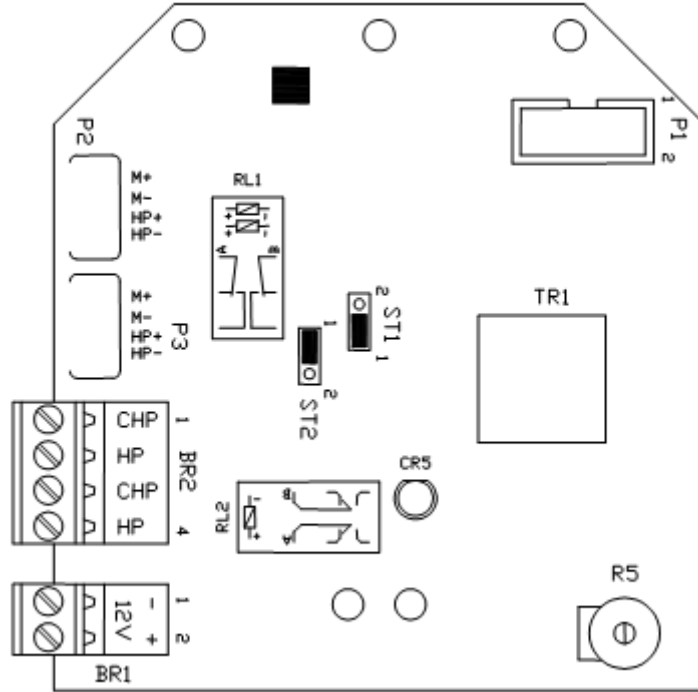
1 relay board



2 relays board

7.1 AMPLIFIER CARD

All variants can be equipped with this booster card which amplifies reception by 10-20 dBA subject to current available and the balance of the loudspeaker compared with the microphone. Can be fed by the line or a 1.5VA external source.



Several applications are possible:

- 1/ Remotely fed by the telephone line and internal loudspeaker (minimum current 40mA). Voice is amplified by approx. 10Db.
- 2/ External 12VDC power supply and internal loudspeaker. Voice is amplified by approx. 20 Db. If 12V power supply is removed, case 1 applies.

In case 1 and 2 jumpers ST1 and ST2 are in position 1 and ringing is not amplified.

- 3/ External 12 VDC power supply and external loudspeaker. Voice and ringer are then amplified by approx. 20 Db. Jumper ST1 is in position 1 and ST2 IN POSITION 2. The external loudspeaker must be connected to 1 and 2 on BR2. If the 12VDC power supply disappears the telephone functions with its extension loudspeaker amplified by the line current.

Potentiometer R5 facilitates volume adjustment in the 3 cases within the limit of distortion and feedback. Connection of the external 12VDC voltage on +/-3 on terminal BR1.

8 PROGRAMMING

The DIA-376 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 DIA-376 telephone to be programmed.

8.1 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.

Function No	Function	Programming code
<p>1</p>	<p><u>AUTODIAL NUMBERS</u> (If no chaining is required) If chaining is required, use function No5 instead (page 25)</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 dialing.</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, 5, 7 with autodial numbers and memories 2, 4, 6 and 8 as empty memories.</p> <p>For 8 – BUTTON TELEPHONE Program memories 1 – 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*</p> <p>*2400*</p>
<p>2</p>	<p>TYPE OF DIALLING / CONFIGURATION Although this equipment can use either loop disc or DTMF Signaling only the performance of the DTMF signaling is</p>	

	<p>subject to regulatory requirements for correct operation. It is therefore strongly recommended that the equipment is set up to use DTMF signaling for access to public or private emergency services.</p> <p>DTMF signaling also provides faster call set-up.</p> <p>For configuration, each function has a value as follows:</p> <p>1/ DTMF dialing and automatic clear down. 00</p> <p>2/ For pulse dialing and automatic clear down. 01</p> <p>3/ No access to memory dialing : 02</p> <p>4/ No clear down 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 dialing, no access to memory dialing, no clear down on receipt of tone.</p>
3	<p>LOUDSPEAKER VOLUME</p> <p>V= volume from 1 to 9 (factory setting = 5)</p>	*140V*
4	<p>RINGING VOLUME</p> <p>V= volume from 1 to 7 (factory setting = 7)</p>	*160V*
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 dialed 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,...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 – M2 and T2 between M2 – M3, M3 – M4 etc... if necessary</p> <p>These times are the intervals in the event of no-answer Before dialing 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,...) 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>	
6	<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 (suitable 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>	*11NN*

7	<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>
8	<p>MAXIMUM CALL DURATION Length of conversation before automatic clear down</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 seconds (factory setting) XX = 00 Does not clear down on duration of silence XX = 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 – 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 = 00 99 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 – M9</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 the command code *0600* from a central system. N = telephone ID up to 4 digits</p>	*5000*N*

9 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>

10 MAINTENANCE

DIA-376 telephones require little maintenance to remain in excellent operational condition. Carry out the following maintenance if necessary.

EXTERNALLY

Clean using a dampened soft cloth.

If you use a high pressure hose (preferably 50 bar) do so from a distance of about 1.50m (5ft) from the telephone.

INTERNALLY

The telephone requires no internal maintenance. Do not insert any fluid into the telephone set.

WEATHERPROOFING

At least once a year and otherwise whenever closing after opening check thoroughly the effective weatherproofing of the joints, seals and apertures and state of the silicon sealant and repair or replace as appropriate (see Note – page 4).

11 IN THE EVENT OF A PROBLEM

Before consulting the maintenance service, we advise you to check the following points:

PROBLEM WITH LINE CONNECTION OR DIALLING

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

TRANSMISSION PROBLEM

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

RECEPTION PROBLEM

- If reception is weak, adjust the reception to the level required.