

APARTMENT BLOCK SWITCHBOARD FOR 2 WIRE ELVOX SYSTEMS

INSTALLATION AND OPERATION MANUAL



Cod. S6I.945.F0E

3. OPERATING MODES

This chapter describes the operations which must be made with the switchboard to communicate with a panel or internal device, or enable intercommunicating calls between two internal devices.

As described above (see paragraph 2.1.2) the switchboard can operate in two separate ways: external and internal mode.

3.1. SWITCHBOARD IN EXTERNAL MODE

In this way the switchboard can only receive calls from a panel with the only recipient being the switchboard; if a call is made from the panel to the switchboard with the same ID as the recipient, the switchboard display shows a message similar to:

Video call from TARGA EXT. N.1

om Mo-06/11-09:14 E

This message appears at the same time as a call signal on the loudspeaker of the switchboard base ; after raising the handset from its seat the operator can then enter in communication with the panel making the call.

| Talking with | Mo | 06/11 | 09:149 | E |
|----------------|----|-------|--------|---|
| TARGA ÉXT. N.1 | | | | |

3.2. SWITCHBOARD IN INTERNAL MODE

When the switchboard is set to internal mode, all external calls received (from panels) are checked and routed by the switchboard.

Note: in this mode, the switchboard can always receive external calls specifically directed to its ID (direct call to switchboard), in which case the items shown on display are the same are those described in the above paragraph only with the icon (top right).

3.2.1. Panel call to internal device

In this case the call is made from a panel specifically to an internal number but this call is diverted to the switchboard. At the same time as the call signal, the switchboard display shows the following type of message:

| Video | call | from | | Mo 06/ | 11 09:15 |] |
|-------|------|------|---|--------|----------|---|
| TARGA | INT. | N.2 | > | MAGAZ. | PARTENZE | - |

In the example: the message informs the operator that a call has been made from internal panel N.2 to the internal unit DEPARTU-RES WAREHOUSE.

If the operator does not want to answer, he can cut off the call directly using key , or answer by simply raising the handset to enter into communication with the caller panel, in which case the display shows the message type:



At the same time, the green LINE Red illuminates to indicate audio communication active with the switchboard.

The switchboard operator can then put the caller panel into communication with the required internal device according to the following sequence of operations:

- press the key

to put the caller panel on hold, with display of the following sequence:

(waiting ...) \longrightarrow Mo 06/11 09:165 I (waiting ...)

Mo 06/11 09:169 Ι TARGA INT. N.2 > MAGAZ. PARTEN - make the call to the internal device requested by pressing . The following text is displayed: I Calling Mo 06/11 09:179 TARGA INT. N.2 PARTENZE MAGAZ. alternating with: Mo 06/11 09:175 Ι alling PARTENZE (waiting .. MQAQZ. - if the internal device consents, the switchboard operator uses the key to connect the caller panel to the internal device, and the switchboard display shows confirmation of communication in progress with: <u>Talking between</u> Mo 06/11 09:189 I TARGA ĪNT. N.2 MAGAZ. At the same time, the green INTERC Inductor Indicates to indicate audio communication active between the panel and internal device. At the same time the led indicating communication with the switchboard LINE turns off. - if the internal device does not exist or is not properly connected to the riser, the display shows the message: Answer Mo 06/11 09:189 Ι MAGAZ. PARTENZE (waiting ...) The switchboard the automatically returns to communication mode with the panel previously put on hold. In this case audio communication is resumed with the requesting panel: at this point, a call can be ended or repeated from the switchboard to any internal device to connect tit to the panel according to the procedures described above. The same happens if the internal device called is effectively connected to the system but does not answer the call (the handset release from the monitor/interphone is not performed). It is always possible to override the return to the panel on hold from the switchboard by means of key to resume audio communication. In a similar way to above, a call can be ended or repeated to any internal device (by first setting the panel on hold) according to the procedures described above. Communication between the panel and internal device terminates when the internal device handset is replaced or on elapse of the set communication time interval. Note: The switchboard, by means of the enable key (preceded by a suitable warning tone), can intercept communication to request interruption: this would be for the purpose of releasing the riser and enabling other calls to or from internal devices con-, the switchboard operator can end communication in protrolled by the switchboard. After the audio enable key is pressed gress by means of the key 3.2.2. Internal call to switchboard In internal mode the switchboard can also receive calls from an internal device. The call is made by pressing the lock key of an interphone that has the hook raised and without other operations in progress; in practice this means the user has to raise the hook and press the lock key. It must also be enabled by programming the switchboard to = YES (default), see instructions for panels 89F3-5-8 or 89F4-7-9 or of programmer 950C. The call request by a internal device is indicated by activation of the loudspeaker on the base of the switchboard and the display message: Video call from Mo 06/11 09:21 T MAGAZ. PARTENZE If the operator does not want to answer, he can cut off the call directly using key , or answer by simply raising the handset This enables audio communication. At the same time, the green LINE key line led illuminates to indicate audio communication active with the switchboard. Communication terminates when the switchboard operator or internal caller handset is replaced or on elapse of the set communication time interval. 3.2.3. Call from switchboard to internal device As well as receiving calls the switchboard can also make calls to internal devices. With the switchboard handset raised, the number of the required internal device is dialled via the numerical keypad, followed by key for confirmation.

In this way the call is sent to the required internal device, and the display shows the message:

Calling MAGAZ. PARTENZE

Ι Mo 06/11 09:309

If the internal device does not exist or is not properly connected to the system the switchboard display shows the message type:

alternating with:

Mo 06/11 09:305

Audio communication between the switchboard and internal recipient is indicated by the message type:

Talking with MAGAZ. PARTENZE

The switchboard envisages three types of numerical selection associated with an internal device:

natural encoding: in this case the number to dial coincides with the HW ID of the internal device (monitor/interphone) to be called;

4_digit: a 4-digit code is associated, which represents a unique ID of the internal device to be called;

8_digit: an 8-digit code is associated, which represents a unique ID of the internal device to be called;

This encoding methods are set in the switchboard SW configuration menu (see paragraph: 2.2).

At the same time, the green LINE R LINE led illuminates to indicate audio communication active with the switchboard. As in the previous cases, communication terminates when the switchboard operator or internal caller handset is replaced or on elapse of the set communication time interval.

Intercommunicating call between two internal devices 3.2.4.

Calling

The switchboard is designed to connect and establish communication between two internal intercommunicating devices. Two internal devices can always communicate, independently from the switchboard. The procedure to establish intercommunicating conversation between two internal devices by the switchboard is as follows:

It calls the first internal device:

The switchboard enters audio communication with the first internal device and puts the user on hold by means of the key

The switchboard operator dials the second internal device number and confirms by means of key

MAGAZ. PARTENZE

If the call recipient accepts, the switchboard connects the two internal devices by means of key The switchboard display shows the message indicating communication in progress, type:

> Talking between Mo 06/11 09:349 Ι MAGAZ. PARTENZÉ <-> SEGRETERIA

At the same time, the green INTERC Indicate audio communication active between the two internal

devices. At the same time the led indicating communication with the switchboard LINE & LINE turns off.

Activ. panel N. 1

Communication between the two internal devices terminates when one of the handsets is replaced or on elapse of the set communication time interval.

Also in this case the switchboard can intervene in the communication according to the same procedure as described in paragraph 3.2.1.

3.3. **ACTIVATION COMMANDS: LOCAL AND REMOTE**

In normal operating mode, the switchboard envisages two methods for activating controls related to the lock and auxiliary functions F1 and F2 (local and/or related to a remote panel), methods without communication and method during communication with

a panel. Both are available by means of the lock key

3.3.1. Mode without communication

enables access to the menu related to local and remote controls, with display With the switchboard in rest status, the key of the following: 1 Mo U6/11 07 2=A, 3=A, R=Exit Mo 06/11 09:35 T Activ. panel N. Local act.:1=9,

alternating with:

Act. panel: 4=3, 5=6, 6=6 the displayed panel is the last with which the switchboard was in communication. As default it is the 1, i.e. the MASTER. The pressing of the numerical push-buttons indicated on the second line of display allows the local or remote switchboard operation (criteria for door lock and auxiliary functions F1 and F2).

Mo 06/11 09:35

Ι

| ACTIVATION | DOOR LOCK | F1 | F2 |
|------------|-----------|----------|----------|
| LOCAL | 1 | 2 ABC | 3 DEF |
| REMOTE | 4 GHI | 5 | 6 MNO |





Answer

PARTENZE

No

MAGAZ.

Mo 06/11 09:329

Mo 06/11 09:305

Ι

T

Ι

At any activation a respective icon appears above on the right hand side of display.

Activ. panel N. 1 Mo 06/11 09:36 3 I Local act.:1=3, 2=4, 3=4, R=Exit

Through push-buttons and it is possible to select the increasing or decreasing number of panel on which to effect the operations forseen with the numerical push-buttons shown on the second line of display:

By pressing the push-button

you can return to the switchboard rest initial state.

3.3.2 Mode for "communication with the entrance panel".



With the switchboard in "communication with the entrance panel" mode, through push-button it is possible to operate locally with the switchboard or activate the remote ones related to the connected entrance panel. Everything is the same as the previous paragraph, with the exception of push-button with which you can go back to the previous state for the switchboard viewing.

3.4. SWITCHBOARD APPOINTMENTS

Up to 10 appointments can be inserted, regarding the single porter switchboard. Each appointment can be associated with a different text note of maximum 40 characters. Each appointment can (or may not) have a periodic repetition. The available repetitions are:

- No repetition (single). The event occurs once only at the set date and time and then is disabled.
- Annual repetition. The event is repeated each year at the same set time.
- Monthly repetition. The event is repeated each month at the same set time. If a month does not have a sufficient number of days (for example if programmed for the date 30 and the current month is February) the last effective day is selected.
- Alarm. A series of days can be specified in which the appointment is activated at a set time.
- Weekly repetition. The event is repeated each week at the same set day and time.
- Daily repetition. The event is repeated every day at the same set time.
- Hourly repetition. The event is repeated at the selected hour interval starting from the set time.

Enter programming mode by pressing + . Use keys and to move from one appointment to another, or press for appointment 1, for the second, of the tenth and so on. From position 1, press to move to internal device appointments.



to skip all intermediate phases and go directly to the internal device appointments.

To enable or disable an appointment, use key \bigcirc . The enabled status us indicated by the symbol $\stackrel{\textcircled{}}{\textcircled{}}$ in the last position. This can be done independently from modifications to the appointment.

To modify an appointment, press the key

If the appointment has never been programmed:

a unique event is proposed a the current date and time. This can be modified by moving through the fields using keys



Note in the selected field, highlighted by the symbol $rac{arprodel}{arprodel}$, use keys Appointment 1 Mo



.. for the numerical fields.

For the month field, enter the number 01 for January, through to 12 for December. For fields requiring a weekday, use the keys according to the following scheme:



the maximum length of a text is 40 characters. To change the type of repetition use key while in appointment editing mode. Depending on the previous situation and position, the configuration changes.

| REPETITION | DISPLAY | NOTE |
|------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| None | Appointment 3 25¢May 06 12:02 | Default or compile fields set to '-' |
| Annual | Appointment 3 25 May —\$12:02 | Press R at the year from which to start from no repetition |
| Monthly | A pp ointment 3 25\$ 12:02 | Press R at the month from which to start from no repetition |
| Alarm | Appointment 3 | Press R at the day of the month from which to start from no repetition. |
| | | Press R again to return to no repetition |
| Weekly | Appointment 3 \$Th 12:33 | Press at the year from which to start no repetition and then press at the day of the month |
| Daily | Appointment 3 —\$Th — 12:33 and last | Press R at the year from which to start no repetition and then press stn the month, y press at the day of the month |
| Hourly | Appointment 3 \$6 12:43 | Press R at the year from which to start no repetition and then press at the day of the |

When the switchboard is in the rest status, the system checks whether the time of the first active appointment has elapsed according to the natural sequence. The check is performed every minute but is not synchronized with the clock. If the time has elapsed, the switchboard speaker emits three beeps at a frequency of approx. 1300 Hz and duration of 200 ms with pauses of 200 ms for 60 seconds, with a repetition cycle of 2 seconds. The second line of the display shows the message programmed together with the event.

Mo 06/11 10:32 g

Ι

I

before the timeout of 60 seconds.

Wake-up

If no message is entered, a default version is displayed:

Mo 06/11 09:48 Switchboard app. 3

To inform the switchboard that the event has been acknowledged, press the key

3.5. INTERNAL DEVICE APPOINTMENTS

An appointment can be entered for each system interphone/monitor. Unlike the switchboard appointments, no text notes can be associated. Each appointment can (or may not) have a periodic repetition. The available repetitions are:

- No repetition (single). The event occurs once only at the set date and time and then is disabled.
- Annual repetition. The event is repeated each year at the same set time.
- Monthly repetition. The event is repeated each month at the same set time. If a month does not have a sufficient number of days (for example if programmed for the date 30 and the current month is February) the last effective day is selected.
- Alarm. A series of days can be specified in which the appointment is activated at a set time.
- Weekly repetition. The event is repeated each week at the same set day and time.
- Daily repetition. The event is repeated every day at the same set time.
- Hourly repetition. The event is repeated at the selected hour interval starting from the set time.



Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

4 6H

> 5 JKL

6 MNC

7

and the inconsistency is shown by the symbol 🗰 Device

To change the type of repetition use key while in appointment editing mode. The configuration changes according to the previous situation and position. Refer to the table in the previous paragraph.

123 11:99¢ Mo 06/11 10:09 K

Ι

Ι

T

Each minute, though not synchronized with the clock, the system checks whether the time of the first active appointment has elapsed according to the natural sequence regarding the interphones/monitors. If the interphone/monitor is in the rest status, a 50second timer is started up on the addressed device, during which the device emits three beeps at a frequency of approx. 1300 Hz for a duration of 200 ms with pauses of 200 ms, and a repetition cycle of 2 seconds. If the user raises the handset, the device sends a message to the switchboard to notify of the answered call. At the same time, the handset will emit a tone at a lower frequency but at the same interval for a maximum time of 30 seconds, after which the tone is replaced by silence. Starting from a situation with the hook raised, the sound will first be emitted on the loudspeaker, after which when the handset is replaced the standard situation is restored in which the call can be answered as described previously. If the switchboard does not receive an answer within 55 seconds, it will consider the call unanswered and place in the unprocessed category.

3.6. EVENT MANAGEMENT

Switchboard type 945F memorises up to 200 events, divided into:

- Unanswered calls
 - or Call to interphone/monitor in internal mode
 - or Calls to switchboard by an interphone/monitor
 - or Call to switchboard by a panel
- Warnings
 - or Use of codes for lock, F1 or F2 from a panel type 89F4-7-9
 - or Alarm

When there is at least one event, the icon area displays the corresponding symbol and the MEMORY led lights up. A certain type of event involving the same object replaces the less recent event. For example if an interphone/monitor calls the switchboard several times, only the last call appears in the events list. This is to avoid filling the list when calls are made repeatedly to the switchboard.

3.6.1. Viewing the list

Use the key W from rest statues to view the most recent event:

Мо 06/11 10:24 <u>б</u> [001/008]15/03 08:56 Extern.Call3

The information displayed are read as follows:

1. This is the first of 8 events [001/008]

2. The event occurred on 15 March at 8.56 am 15/03 08:56

3. The event is a call from a panel to an interphone/monitor with the ID 3 Extern. Call3

If the interphone/monitor with ID 3 has an associated name, this appears in place of the number:

Mo 06/11 10:23 g I

[001/008]06/11 10:21 Extern.CallChiara

This applies provided that the length is less than or equal to 8 characters. In the case of longer names, the display changes using the symbols: $M_0 \otimes M_1 \otimes M_2 \otimes M_1$

[001/008]06/11 10:21 <=>Benedetta

If an interphone/monitor calls the switchboard and receives no answer as the switchboard is not manned at the time, the event is displayed as : $M_0 \otimes M_1 \otimes M_2 \otimes M_1$

[001/009]06/11 10:28 Sub. Call 6

Once again, the event may appear in the form of its entire name if the length is less than or equal to 8 characters:

Mo 06/11 10:30 á [001/009]06/11 10:28 Sub. Call Giulia

Or the event will be displayed in abbreviated symbolic form if the name length exceeds 8 characters:

.... <u>Mo </u>06/11 10:29 K

[001/009]06/11 10:28 <u>3</u> Margherita

However, an event such as the use of a lock code is displayed as follows:

Mo 06/11 10:27 K I [001/009]06/11 10:27 Use lock key 68

| A appointment event for the switchboard to which no answer was given is displayed as : | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Mo 46/11 10:32 <u>5</u> 1 [004/004]06/11 10:02 Switchboard app. 3 | | |
| | | |
| Press the key 🖤 to see the associated text: | | |
| Mo 06/11 10:32 <u>K</u> I | | |
| | | |
| CAUTION: THE TEXT IS VALID ONLY IF THE APPOINTMENT HAS NOT BEEN CANCELLED OR MODIFIED. An alarm event (appointment for internal device) to which no answer was given, is displayed as follows: | | |
| [001/005]06/11 10:34 Device Appoint. 7 | | |
| Press it scroll through all events in sequence. After the last event the cursor returns to the first. | | |
| 3.6.2 Extraction of number from list | | |
| If the event is an unanswered call or appointment for internal device, the key enables extraction of the relative ID to enable subsequent calls to the interphone/monitor concerned. | | |
| | | |
| The key makes the call, and cancels extraction. | | |
| At the same time the event is cancelled. 🔇 cancels the event in any event, even if it is not a call. | | |
| 3.6.3. Canceling a list | | |
| | | |
| To delete all events, without viewing all, from the switchboard rest status, press and hold with for three seconds. The display confirms deletion: | | |
| Mo 06/11 10:41 I | | |
| | | |

Note that the symbol and the MEMORY MEMORY led are now off.

The MEMORY Removes led flashes quickly when a new event is added to the list, while it cannot be served. For example, if the switchboard is in programming mode, and a call arrived from an interphone or panel, these are denied and added to the list. To return to the normal situation, consult at least one item in the list of events. The led turns to steady or switches off if there are no more events.

3.6.4. Corrupt list

If the symbol is flashing, this means that the list is corrupt and that it must be deleted, retrieving events where possible, before other events can be added. This must never occur during normal switchboard operation. If this does occur, contact technical assistance.

4. INSTALLATION

4.1. SYSTEM CONNECTION TERMINAL BLOCK

The switchboard receives power and is integrated in any Elvox 2-wire system by means of an external terminal block called BOSS. This comprises two rows of terminals to which all signals required by the switchboard are connected, and a comb type connection between the terminal block and a multi-pole cable with suitably polarised connector (PLUG) returns the signals directly to the switchboard interior. The boss envisages one method of insertion of the comb type connector on the multi-pole connector: this polarisation prevents incorrect power supply to the switchboard.

The following illustrates the connection boss and relative meaning of each terminal:



Connection stud (switchboard-riser)

The stud consists of:

- base equipped with a double row of terminals (15 terminals each side)
- free polarized plug to insert in connector and base comb (the free plug connects 30 wires, whose code is indicated in the crossreference table in the technical documentation).