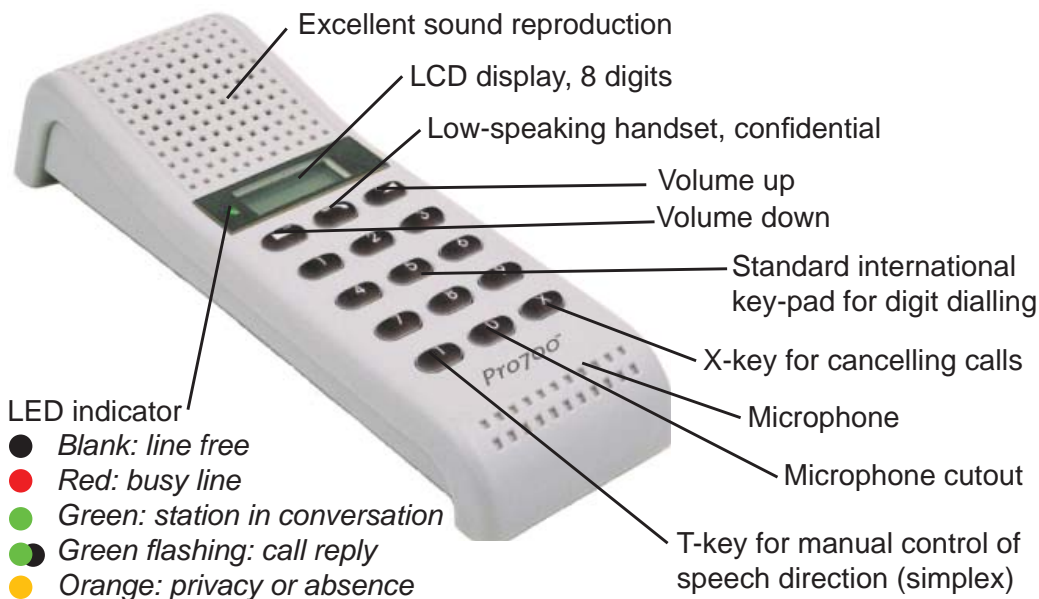


# Pro700 Communication System



*Pro700*



## Keypad features

- 10-49 - Subscriber call numbers
- 5 - Door opening feature (only from predetermined stations).
- 5 - Reply to *Doorbell Call*
- 6 - Last number redial
- 6 - Activate *Silent Alarm*
- 7 - Activate *All Call*
- 8 - Activate / reply to *Call Back*
- 8 - Reply to *All Call / Group Call*
- 9 - Activate *Emergency Call*
- 91 - Activate *Group Call #1*
- 92 - Activate *Group Call #2*
- 93 - Activate *Call Reply*
- 96 - Access to *Program Distribution* channel (music)
- 97 + 4 digits
  - Storage of *Absence Message* information
- 97X - Delete *Absence Message*
- 98 + call number + volume
  - Activate *Remote Program Distribution*
- 99 - Activate / remove the *Privacy* function
- 0 - Accept a call when the station is in *Privacy* mode.
- 0 - *Priority* - gives predetermined stations access to the busy line
- 0 - *Microphone cutout*
- 0 - *Hurry-up* message to stations in conversation
- 0 - Call last caller.
- X - Terminate conversation.

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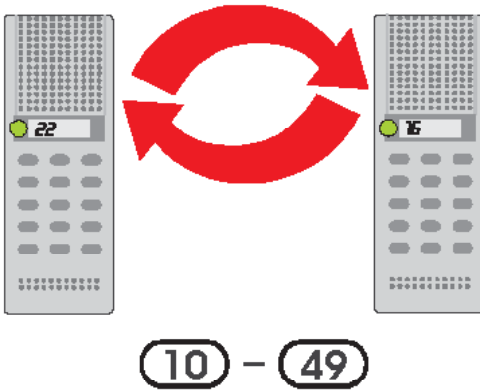
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## Loud-speaking



### IDLE

- The station's extension number is shown in the display.
- The lamp is dark if the line is free.



- The lamp is red if the line is occupied.



### CALL

- Press first digit (1 - 4)  
- dial tone.
- Press second digit (0 - 9)  
- the dialled number is displayed  
- the light is green



- call tone is heard in both stations
- the conversation can start loud-speaking and hands-free (duplex).

- The initiator's extension number is displayed on the called station.

### VOLUME

- The station has a 16 step volume control  
- press the "+" and "-" keys to change.

### CANCEL THE CALL

- Either party can press the X-button.

## Confidential



### LOW-SPEAKING

- Press the "handset" key on station AA711 / AA702 during conversation  
- a dot is shown in the display.

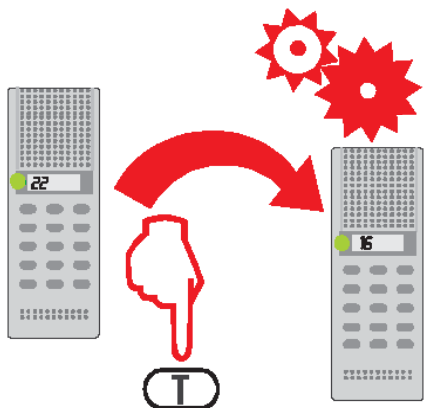


- Either one or both parties can select "Confidential" at any time during a call.
- Pick up the station and use the set in the same way as a telephone handset.
- When both parties use their stations in this mode, the system operates in open duplex  
- both parties are able to speak and listen simultaneously.

### REVERT TO LOUD-SPEAKING

Press the "handset" key again.

## Manual speech control



All calls are set up in hands-free duplex mode.

When calling to or from a noisy area, the duplex switching may be influenced by the noise.

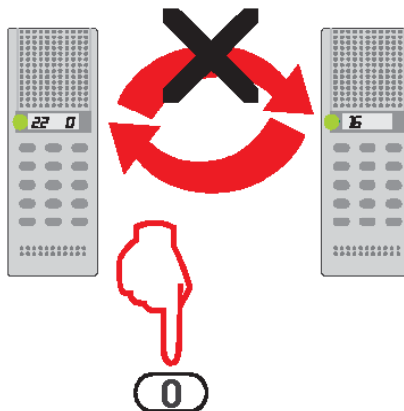
### SIMPLEX MODE

- Press the **T**-key (Talk) to force the speech direction towards the *called* station.
- Release the **T**-key (Talk) to force the speech direction towards the *initiating* station.
- Either party may use the speech control at any time during a call.
  - If both parties are using the T-key, the last one has speech control.

### REVERT TO HANDS-FREE MODE

- Touch the **T**-key.

## Microphone cutout



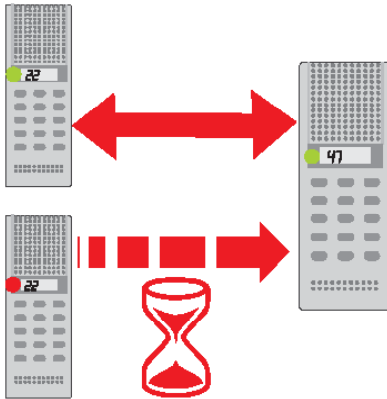
### MUTE MICROPHONE

- Press and hold the **0**-key to temporarily disconnect the microphone during a conversation.

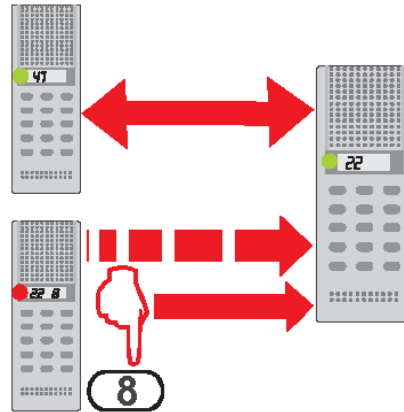


- Release the **0**-key to resume the conversation.

## Camp on to a busy line or station

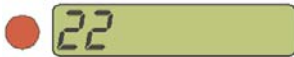


## Call Back



### BUSY CONVERSATION CHANNEL

- Indicated by a red lamp in all idle stations.
- A caller can dial an extension number even if the line is busy - a busy signal is heard.



- The caller will automatically be connected if the line becomes free within 10 sec.

### BUSY STATION

- Dial on a free line to a station in dialling or programming process - indicated by a flashing green lamp in the initiating station - a busy signal is heard



- The caller will automatically be connected if the station becomes free within 10 sec.

### BUSY CONVERSATION CHANNEL

- Make a call when the line is busy - red light and busy signal.
- You want to get in touch regardless of waiting time (*Call Back* has no time limit, the *Camp on busy* feature is limited to 10 sec.).

### AUTOMATIC CALLBACK

- Press the **8**-key - the requested call is stored in the station's memory.

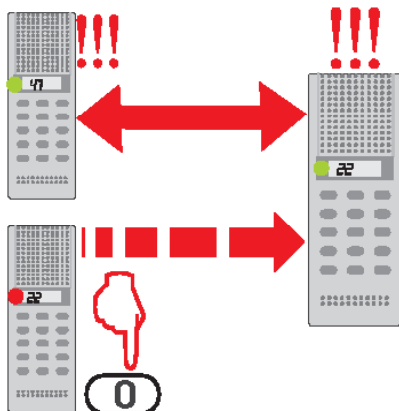


- When the line becomes free, the caller is notified by a special tone signal - flashing green lamp in calling station.



- Establish connection by pressing the **8** key within 10 sec. - the feature is auto-cancelled if there is no connection after 10 sec.
- The Call Back mode is cancelled by dialling **X**.

## Hurry up



- Make a call when the line is busy  
- the lamp is red



- You must get in touch at once.

### HURRY UP

- Press the **0**-key within 10 sec.  
- a hurry up tone is heard in both the busy stations.

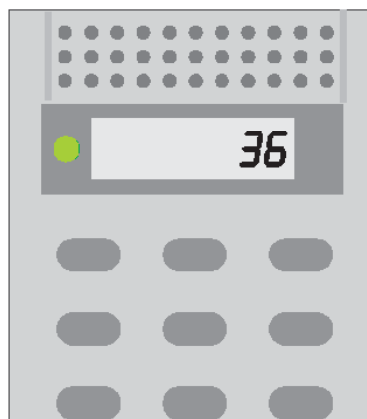


- If the ongoing conversation is cancelled within 10 sec., the initiator is connected to the called extension.

### PRIORITY STATIONS

- Press the **0**-key to cancel any ongoing conversation  
- the line becomes free and the called station is connected.

## Absence registration



### SET MESSAGE

- Dial code **97**
- Enter four additional digits to indicate date or time  
- the message is displayed  
- the lamp turn orange.



### CALL TO STATION WITH MESSAGE

- The caller will hear a specific tone  
- the 4-digit absence message will be displayed  
- flashing green light.



### CONNECT TO STATION WITH MESSAGE

- Press the **0**-key when the message is displayed  
- or wait for 10 sec. for automatic connection.

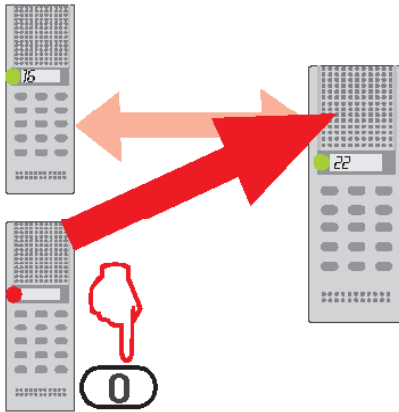
### CANCEL CONNECTION

- Press the **X**-key

### CANCEL MESSAGE

- Dial code **97+X**.  
- The message disappears.

## Priority



Any master station may be pre-programmed to have the Priority feature.

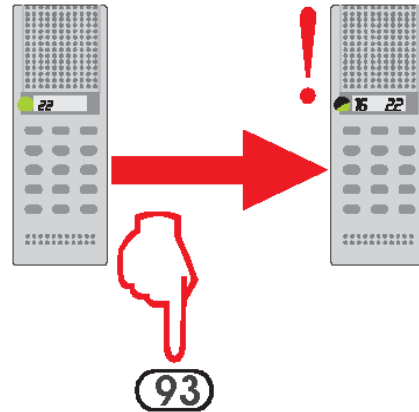
### BREAK IN

- Dial a number while the conversation line is busy  
- or receive privacy-signal.
- Press the **0**-key to override the busy line  
- connection to the called party is established  
- any ongoing call is automatically cancelled  
- the cancelled conversation will not be restored.

### DO NOT BREAK IN

- Camp on to the busy line  
- wait 10 sec for the channel to be free.
- Press the **X**-key to cancel the call.
- The priority function will also cancel ongoing All Call and Group Call but not Emergency Call.

## Call Reply



### ABSENT PERSON

- Dial to a station, no answer.
- Dial code **93** during connection  
- the call is auto-cancelled.
- In the dialled station  
- the lamp will flash green  
- display shows callers number.



- Any caller may leave Call Reply requests in several stations.
- Each station can have up to 4 Call Reply requests in queue.

### ON RETURN TO STATION

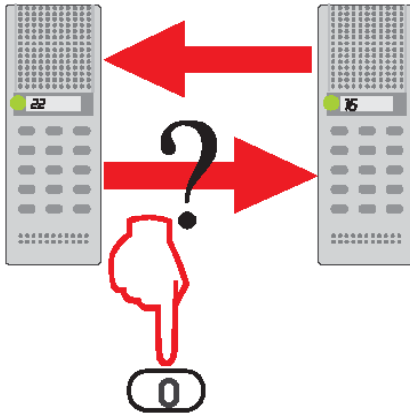
- Notice the green flashing lamp.
- Dial the number on the display  
- or dial code **93**  
- automatic connection to the caller.
- If the station lamp continues to flash after cancelling, there is another Call Reply request in queue.

### NOTE

The Call Reply requests should be attended to **before** dialling another number, program distribution or "**X**". The Call Reply feature will otherwise be cancelled and will not reappear.

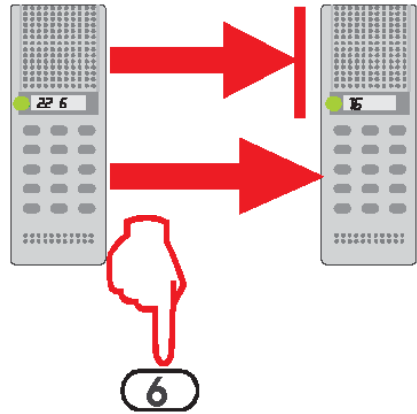


## Call Last Caller



- Press the **0**-key
- Any subscriber can re-establish the connection to the last incoming call.

## Last Number Redial



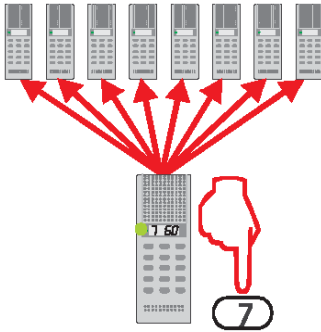
### **REDIAL**

- Press the **6**-key
- This feature is restricted to ordinary calls only and will not redial All Call or Group Call.

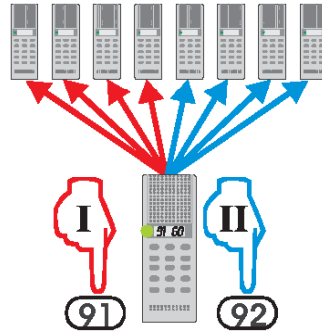
### **NOTE**

*Stations programmed to activate Silent Alarm cannot utilize the Last Number Redial feature.*

## All Call with reply



## Group Call with reply



### MESSAGE TO ALL STATIONS

- Any master station can initiate All Call.
- Any station may be programmed as receiver of All Call
- Press the **7**-key
  - a distinctive tone sequence sounds in all stations.
- Press and hold the **T**-key (Simplex).
- Broadcast a verbal message
  - the max. All Call duration is 60 sec.
  - the countdown is indicated on the display from 60 to 00.



- Press the **X**-key to cancel when finished if no reply is required
  - or let the call stay until auto-cancel after 60 sec.

### REPLY TO MESSAGE REQUIRED

- The initiator may ask for a person or persons to reply to the call.
- Press the **8**-key
  - the reply request is active until next All Call or Group Call.

### REPLY TO MESSAGE

- The called person answer by pressing the **8**-key on any master station receiving the call
  - no time limit.
- Stations may be restricted from receiving All Call messages by programming the station.

### MESSAGE TO A GROUP OF STATIONS

- There are two Group Call groups
  - any station may be programmed to receive group #1 and/or group #2.
- Any master station can initiate a Group Call
  - dial **91** to group #1
  - dial **92** to group #2.
- A distinctive tone sequence sounds in all group member stations.
- Press and hold the **T**-key (Simplex).
- Broadcast a verbal message
  - the max duration is 60 sec.
  - the countdown is indicated on the display from 60 to 00.



- Press the **X**-key to cancel when finished if no reply is required
  - or let the call stay until auto-cancel after 60 sec.

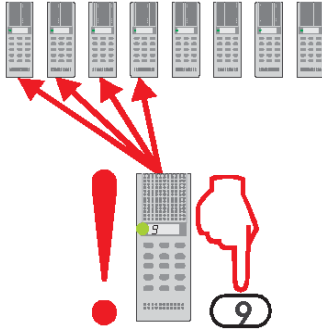
### REPLY TO MESSAGE REQUIRED

- The initiator may ask for a person or persons to reply to the call.
- Press the **8**-key
  - the reply request is active until next All Call or Group Call.

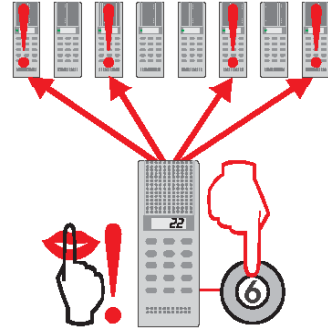
### REPLY TO MESSAGE

- The called person answer by pressing the **8**-key on any master station receiving the call
  - no time limit.

## Emergency Call



## Silent Alarm



### URGENT MESSAGE TO ALL STATIONS

All master stations and substations with a "9-key" can be programmed to activate Emergency Call.

- All stations programmed to receive Group Call group #2 will receive the message.
- Press and hold the **9**-key  
- broadcast an important message.
- Release the **9**-key  
- the call is automatically terminated.
- The Emergency Call has priority over all other calls except Silent Alarm.

Master stations programmed for Silent Alarm can make an emergency alarm call to a predetermined group of stations. The call can also be initiated by a concealed button or a foot-switch. Any station can be programmed to receive Silent Alarm calls.

### MAKE A SILENT ALARM

- Press the **6**-key or activate the emergency switch  
- the station making the call will remain silent and the lamp will not change.  
- the receiving station(s) will give a special warning tone and the lamps are blinking red.

### LISTEN IN

- Press the **6**-key on the receiving station to listen in to the emergency situation  
- no warning sound or light are given in the emergency station  
- the lamp in the listening station will blink green.

### ESTABLISH CONVERSATION

- Press the **6**-key in Listen-in mode  
- a normal duplex conversation is set up.

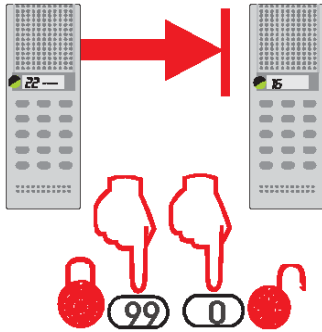
### WITHDRAW FROM LISTEN-IN

- Press the **X**-key in Listen-in mode  
- the call will return to Silent Alarm call with warning tone.

### CANCEL SILENT ALARM CALL

- Press the **X**-key to withdraw your station from the Silent Alarm call  
- the alarm signal stops.

## Privacy



*A person may not want to receive calls during a period of time.*

### SET IN PRIVACY

- Dial code **99**
  - the lamp is orange
  - 4 dashes is shown in display.



### CALL TO A STATION IN PRIVACY

- A continuous warbling tone in the calling station
  - 4 dashes are shown in display



- A short tone in the Privacy station
  - flashing green lamp and the caller's number in the Privacy station.



### ACCEPT A CALL IN PRIVACY

- Press the **0**-key
  - station reverts to privacy on cancel.

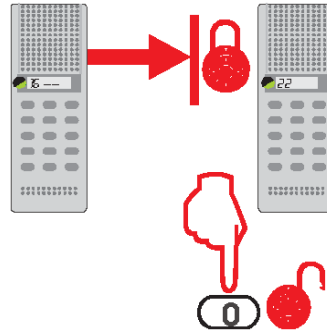
### CALL FROM A STATION IN PRIVACY

- There is no need to reset the Privacy mode to make a call.

### DEACTIVATE PRIVACY MODE

- Dial code **99**.

## Always Privacy



*Any station may be preprogrammed to always be in Privacy mode.*

- A station in Always Privacy acts as a normal telephone
  - incoming calls must be accepted
  - All- and Group calls will pass
  - station lamp is orange
  - 4 dashes is shown in display.



### CALL TO A STATION IN PRIVACY

- Both stations will hear a ringing tone.
  - The ringing volume in the Privacy station will increase during the ringing period
  - 4 dashes is shown in the caller's display
  - Flashing green lamp.



- flashing green lamp and the caller's number in the Privacy station.



- Auto-cancel after 3 minutes.
- Cancelled with the **X**-key by the caller.

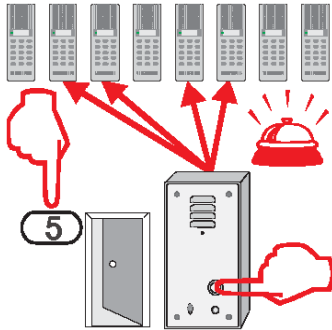
### ACCEPT THE CALL

- Press the **0**-key
  - when the call is cancelled the station reverts to privacy.

### CALL FROM A STATION IN PRIVACY

- Initiated the normal way.

## Doorbell function



*Programmable in 1-button substations where the call button activates the Doorbell function.*

*Master stations can be programmed to receive doorbell calls.*

### MAKE A DOORBELL CALL

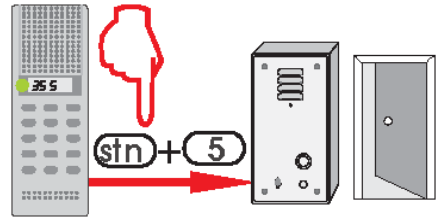
- Push the button on the door station.
  - A tone-sequence is heard in the door station and in the station(s) receiving the doorbell call.
- Press the digit **5**-key on any of the receiving stations to establish connection.
  - The call request is cancelled if not answered within 30 sec. (2 minutes programmable).
- Two different tone signals may be assigned to a door station to distinguish between door #1 and door #2.
- Receiving stations can be programmed to receive calls from door #1 and/or #2.

### REMOTE DOOR OPENING

*The AB731 series stations have built-in relays for:*

- activating an electro magnetic door lock
  - local "station on" output for switching on cameras, lamps etc.
- Press the digit **5**-key in the receiving station during conversation to activate the door lock.
  - A call may be cancelled by pressing a button connected to the Local Reset input in the door station.

## Remote Output and Door Opener



*AA711, industrial stations AA703 - AA705 and single button substations in the AB731 series are equipped with an internal relay which can be used to control an electrical door lock or similar.*

*All other stations must use an external relay controlled by an internal transistor output.*

### ACTIVATE REMOTE OUTPUT

- Call the station with the actual remote output relay from a Priority station.
  - The called station must be programmed for this feature.
- Press the digit **5**-key during conversation to activate the door lock.

### NOTE:

*A station programmed for Remote Output / Door Opener can not be connected to an external loudspeaker.*

## Program Distribution

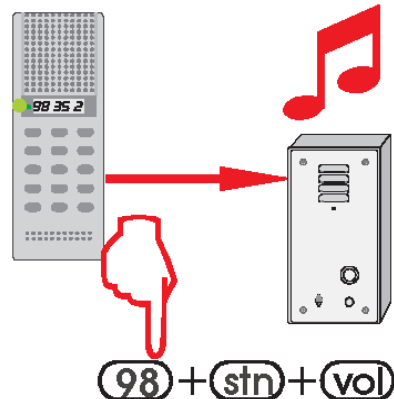


*Program Distribution requires one extra pair of wires in the installation cable. A program source is connected to this dedicated wire.*

### ACTIVATE PROGRAM DISTRIBUTION

- Dial code **96** from any master station.
- The program is put on hold during incoming and outgoing calls - the program is automatically reconnected when the call is terminated.
- Press the **X**-key to cancel the Program Distribution feature.

## Remote Program Distribution



*Program Distribution requires one extra pair of wires in the installation cable. A program source is connected to this dedicated wire.*

*Master stations can connect Program Distribution to other stations, e.g. substations without any key-pad.*

### TRANSFER PROGRAM DISTRIBUTION

- Dial **98 + substation no.** + sound level **1-3** from any master station.
- The program is put on hold during incoming and outgoing calls in the substation - the program is automatically reconnected when the call is terminated.

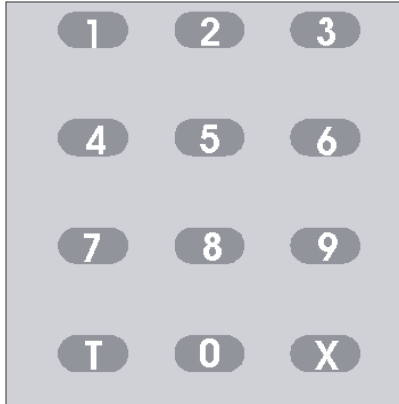
### TERMINATE TRANSFERRED PROGRAM DISTRIBUTION

- Dial **98 + substation no. + 0** from any master station

#### **NOTE:**

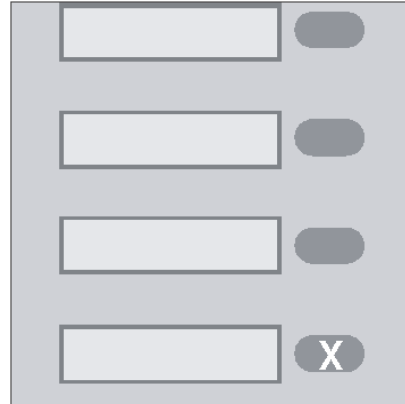
*By dialling 98 + 0 from the master station, all receivers of Program Distribution will be disconnected.*

## Direct Dial 10-key stations



- All master stations can change their key-pad from 2-digit dialling to 1-digit direct dialling to 10 subscribers.
- The number series for the 10 direct dial keys can be:
  - 10 - 19 or
  - 20 - 29 or
  - 30 - 39 or
  - 40 - 49
- The digit 9-key can be programmed to Emergency Call.

## Direct dial 1- and 3-key stations



### 1 KEY STATIONS

- All substations with 1 button are normally programmed to call station no. **13**
- They can also be programmed to
  - activate the Doorbell function
  - be a CAS Operator
  - initiate an Emergency Call

### 3 KEY STATIONS

- All substations with 3 call buttons are normally programmed to call station no. **11, 12 and 13**.
  - Upper call button + **X**-key give access to station no. **21**
  - Middle call button + **X**-key give access to Program Distribution, (code **96**)
  - Lower call button + **X**-key give access to station no. **23**.
- Emergency Call can substitute no. 13 or 23.

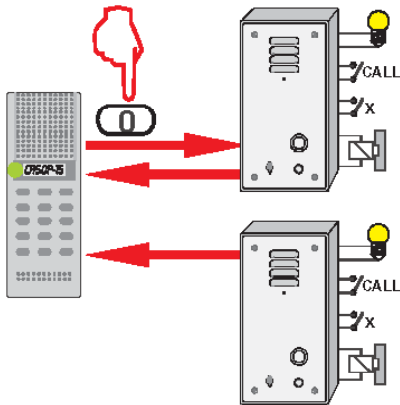
### 10-KEY MODE

- A 1- or 3-key station may be defined as a 10-key station.
- The three buttons will then represent the **3, 6 and 9** keys.
- The first digit in the direct dial number can be preset to **1, 2, 3 or 4**.

*Example: The 9-key can dial **19, 29, 39, 49** or Emergency Call.*

- The **X**-key will reset a call.

# Call Annunciation System - CAS



## WHAT IS CAS?

- A Call Annunciation System (CAS) consist of up to 39 Call-in stations reporting to 1-3 Operator stations.
- Calls from Call-in stations can queue up in Operator stations and be attended to one by one.

## OPERATION

### CAS Call-in station

- A CAS Call-in station can make a call request to CAS Operator station(s) in the following ways:
  - Press the **CALL** button.
  - Press the **9**-key on a master station.
  - Activate the **Remote Input** function.
  - Automatic activation from an optional Sound Detection Module DP996.
- The station lamp will flash green and a short tone is heard
  - or alternatively a message is received from the Program Distribution channel.
- The Local Output function may switch on a warning light e.g. in the corridor.

## OPERATION

### CAS Operator station

- The CAS Operator stations in idle state will display their own extension number:



- A call request is indicated by a call tone and a flashing green light.
  - The tone can be heard once or repeated every third second
  - the CAS Operator station display will show:
    - caller in queue (16)
    - queue index no. (1)
    - number of calls in queue (5)



- The call can be accepted from any of the CAS Operator stations. The operator has the following options:

### 1 Press the 0-key to accept the call.

- This will accept the first caller in queue
- the accepted CAS Call-in station number is displayed together with the updated nos. of calls in queue. The station LED will go steady green.



### 2 Press the T-key to scroll the queue.

- Use the **0**-key to accept the displayed extension number.

### 3 Press the X-key to move a CAS request to the back of the queue.

- Up to 39 CAS Call-in stations can be queued simultaneously.

## RESET CALL REQUEST

- A guard can cancel the CAS request locally from an external button connected to the local reset input in the CAS Call-in station.

## COMMUNICATION

- Press the **0**-key to accept a CAS call request
  - the communication is established in simplex listen mode.
- Use the **T**-key to control the speech direction. *Push to talk, release to listen.*

## SOUND DETECTION

- A Sound Detection Module can activate a CAS request when the ambient noise or voice volume exceeds a pre-programmed level.



## REMOTE CONTROL

*The CAS operator may remotely control the Remote Output feature.*

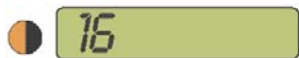
- Push and hold the **5**-key to activate the remote output (open a door, turn on a camera, etc.).

## ADDITIONAL CAS OPERATOR FUNCTIONS

### AUDIO MONITORING, SELECTED STATION

*The CAS operator may listen in to the CAS Call-in station without giving warning tone or light.*

- Dial feature code **95 + station no.**
  - The CAS operator display shows the number of the called station. The lamp is flashing orange.



### AUDIO MONITORING, AUTOMATIC, ALL STATIONS

*The CAS operator may listen in to all Call-in stations for 5 sec., one by one in one round.*

- Dial feature code **95 + 5**
- The CAS operator's display shows:
  - connected station (12)
  - queue index no. (21)
  - number of stations to be monitored (26)



### AUDIO MONITORING, MANUALLY, ALL STATIONS

*The CAS operator may listen in to all programmed stations and manually step one by one.*

- Dial feature code **95 + 6**
  - connection with the first station is established in listen mode.
- Press the **T**-key to switch to the next station.
- Press the **0**-key to establish a call to the monitored station.

- The audio monitoring sequence is terminated after monitoring the last station.
- Press the **X**-key to terminate the sequence at any time
- Dial feature code **95 + 7**
  - the same operation as 95 + 5 except that monitoring will automatically continue for three sequences or be terminated when a call is established or the **X**-key is pressed.

### REMOTE PROGRAM DISTRIBUTION

- Accept a CAS call with the **0**-key.
- Dial **98 + sound level 1, 2 or 3**
  - the caller will be connected to the distributed program channel.

*Disconnect a station:*

- Dial **98 + stn. no. + 0**
  - the called station will be disconnected from the distributed program channel.

*Disconnect all stations:*

- Dial **98 + 0**
  - all stations will be disconnected from the distributed program channel.

### ANTI HARASSMENT FUNCTION

- Accept a CAS call with the **0**-key.
- Press the **7**-key
  - the connection to the CAS Call-in station will be cancelled
  - the Call-in station can not initiate any calls for the next 15 minutes.

### REMOTE DIAL

*The CAS operator can establish a call between two CAS Call-in stations.*

- Dial **94 + stn. no. A + stn. no. B**
  - a connection between station A and B is established.
- Dial **94 + X** to cancel the call from the Operator station.
- Press the **CALL** button on station A or B to cancel the call from either Call-in station.

### DELAYED CAS CALL

*CAS Call-in stations can be programmed to have a Delayed Call function to avoid unintentional calls.*

- Press and hold the **CALL** button for a minimum of 3 sec. to activate a call.

# CAS operation

<b>IDLE STATION</b>	
<b>0</b>	<i>Accept CAS call</i>
<b>X</b>	<i>Move to last in queue</i>
<b>T</b>	<i>Scroll queue</i>
<b>95 + Stn.no.</b>	<i>Listen-in to station</i>
<b>95 + 5</b>	<i>Auto monitoring, all CAS stations, one round</i>
<b>95 + 6</b>	<i>Manual monitoring, all CAS stations, one round</i>
<b>95 + 7</b>	<i>Auto monitoring, all CAS stations, three rounds</i>
<b>T</b>	<i>Switch to next</i>
<b>0</b>	<i>Call station</i>
<b>X</b>	<i>Terminate monitoring</i>
<b>98 + Stn.no. + 1-3</b>	<i>Connect a substation to program, select volume 1,2,3</i>
<b>98 + Stn.no. + 0</b>	<i>Disconnect from program</i>
<b>98 + 0</b>	<i>Disconnect all from program</i>
<b>94 + A + B</b>	<i>Establish conversation between stn. A and stn. B</i>
<b>94 + X</b>	<i>Break conversation between stn. A and stn. B</i>
<b>IN CONVERSATION</b>	
<b>0</b>	<i>Microphone mute</i>
<b>T</b>	<i>Push to talk (Simplex)</i>
<b>5</b>	<i>Activate remote output</i>
<b>7</b>	<i>Anti harassment</i>
<b>X</b>	<i>Cancel</i>

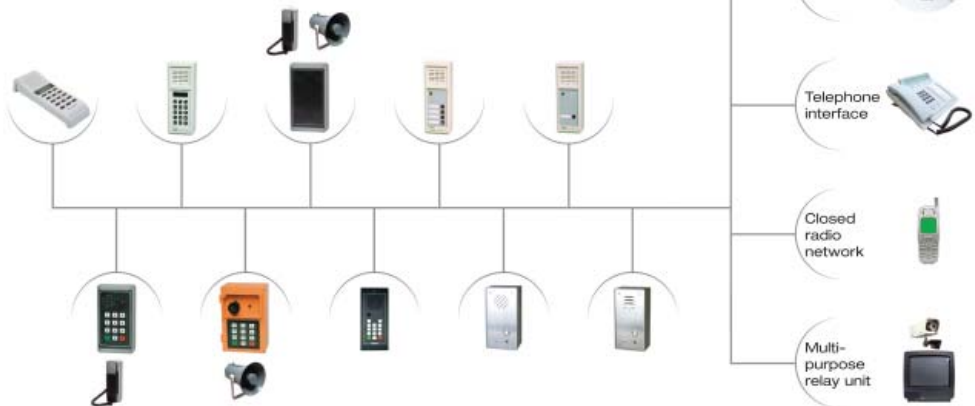
# Pro700 mini manual

FREE LINE		
	<b>Make a call</b> <i>Confidential</i> <i>Noisy room</i> <i>Mute</i> <i>End a call</i>	1 0 ... 4 9  T 0 X
	<b>Emergency call</b> <i>All call</i> <i>Group call #1</i> <i>Group call #2</i> <i>Speak</i> <i>Ask for answer</i> <i>Terminate</i> <i>Answer to GC</i>	9 → G#2 ! 7 → G#1+2 9 1 9 2 T ⌚ 60 s / 8 ⌚ 60 s / X 8
	<b>Privacy</b> <i>Accept a call</i> <i>Deactivate</i>	9 9 0 9 9
	<b>Call reply</b> <i>On return</i>	9 3 → 9 3
	<b>Call to last caller</b>	0
	<b>Re-dial</b>	6
BUSY LINE		
	<b>Call on busy line</b>	1 0 ... 4 9
	<b>Camp on busy</b>	⌚ 10 s
	<b>Call back</b> <i>Line becomes free</i>	8 8 ⌚ 0-10 s
	<b>Hurry up</b> <i>Priority station</i>	0 0 + Stn. no.
SPECIAL FEATURES		
	<b>Program distribution</b> <i>Off</i>	9 6 X
	<b>Doorbell</b> <i>Answer</i> <i>Open door</i>	#1 =   #2 = 5 ⌚ 0-30 s / 0-120 s 5
	<b>Absence message</b> <i>Connect to station</i> <i>Cancel message</i>	9 7 + h h m m Stn. no. + 0 / ⌚ 0-10 s 9 7 + X

WHEN COMMUNICATION IS CRITICAL

# Pro700 - Your hidden business asset

- Shops
- Offices
- Industry
- Dooreentry
- Elevator
- Gasstations
- Supermarkeds
- Small jails
- Treatment facilities



**System Pro700 is developed and marketed by Zenitel Norway AS**