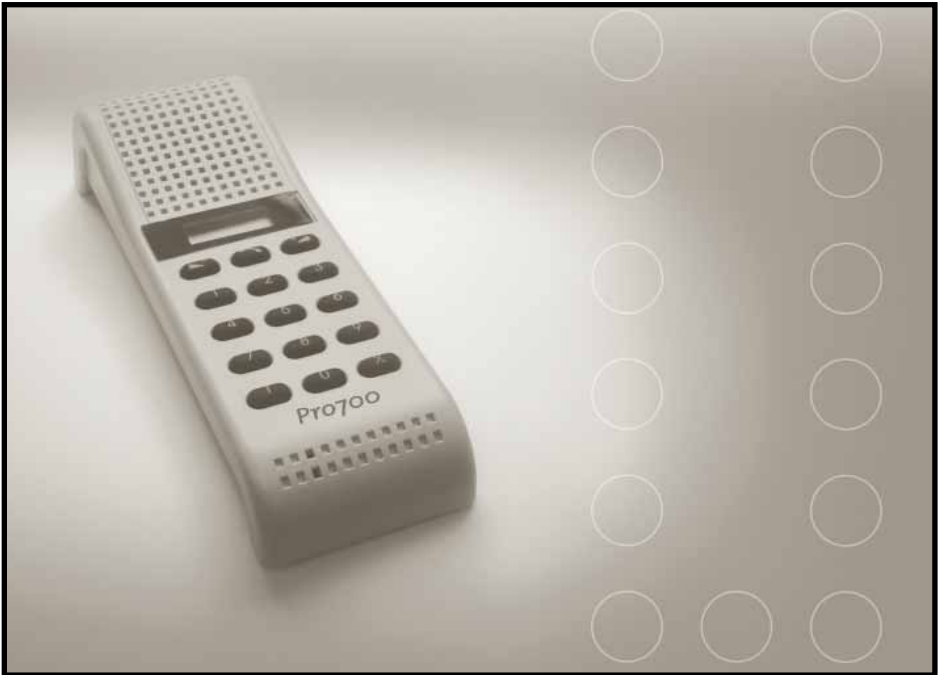


# Pro700

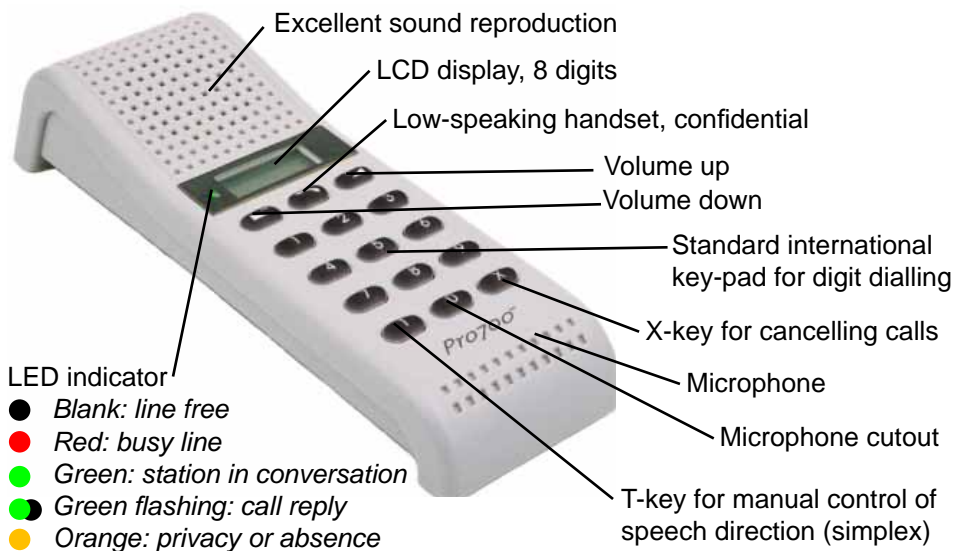
## *User guide*



A100K10227/03.00

Update 06. Jul. 2006

# **Pro700 Communication System**



## 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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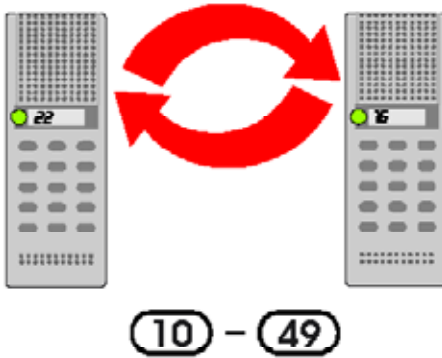
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## Loud-speaking



### 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.

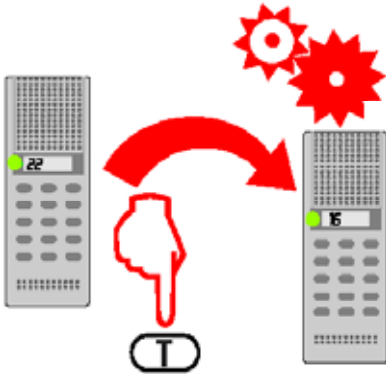


- Either one or both parties can select "Confidential" at any time during a call.
- Pick up the station and use the set in the same way as a telephone handset.
- When both parties use their stations in this mode, the system operates in open duplex  
- both parties are able to speak and listen simultaneously.

### 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.

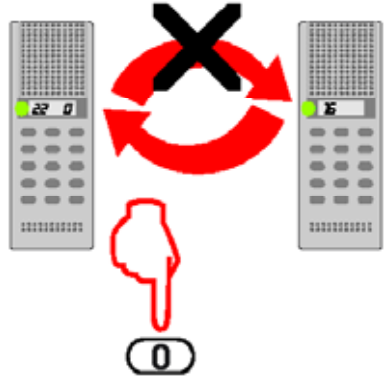
### SIMPLEX MODE

- 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



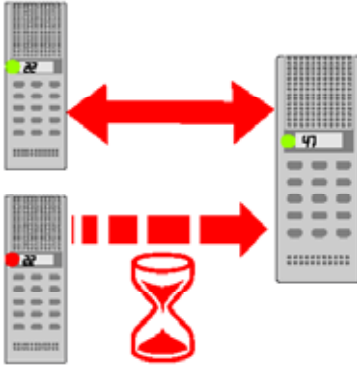
### MUTE MICROPHONE

- 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



### 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.

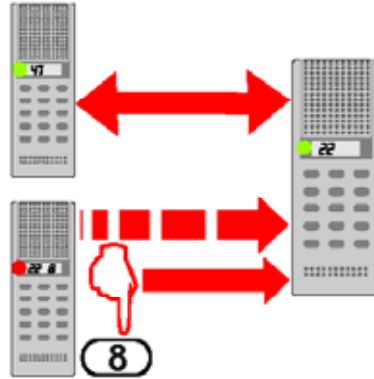
### BUSY STATION

- 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.

## Call Back



### 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.

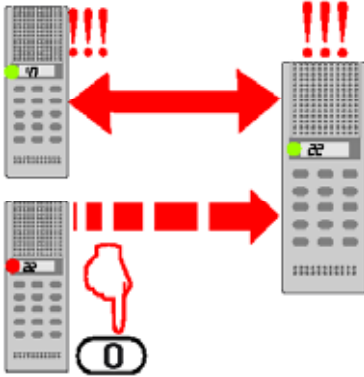


- When the line becomes free, the caller is notified by a special tone signal - flashing green lamp in calling station.



- 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.

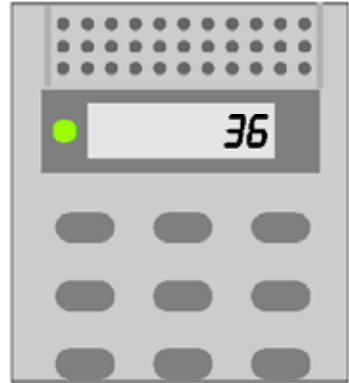


- If the ongoing conversation is cancelled within 10 sec., the initiator is connected to the called extension.

### 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.

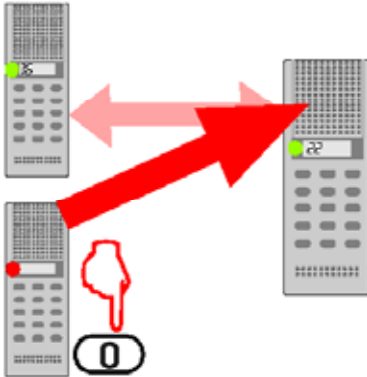
### CANCEL CONNECTION

- Press the **X**-key

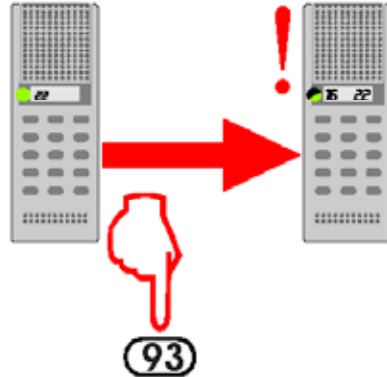
### CANCEL MESSAGE

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

## Priority



## Call Reply



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.

### 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

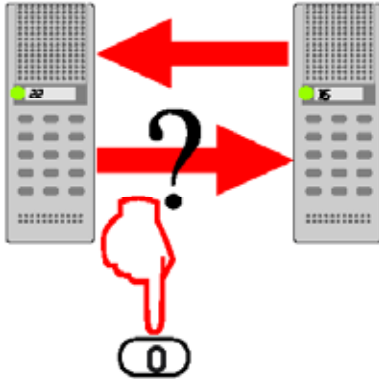
- Notice the green flashing lamp.
- Dial the number on the display
  - or dial code **93**
  - automatic connection to the caller.
- If the station lamp continues to flash after cancelling, there is another Call Reply request in queue.

### 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.*

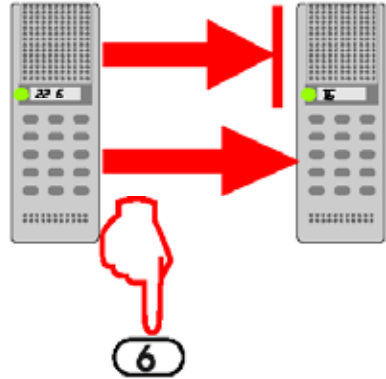


## Call Last Caller



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

## Last Number Redial



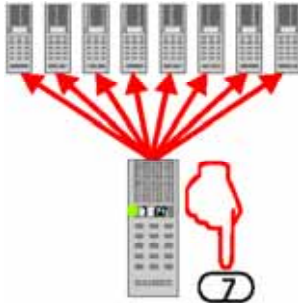
### **REDIAL**

- 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



### 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.

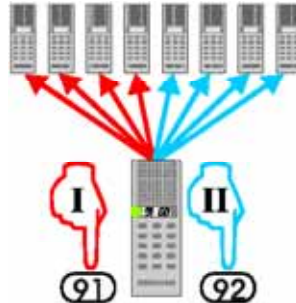
### REPLY TO MESSAGE REQUIRED

- 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.

## Group Call with reply



### 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.

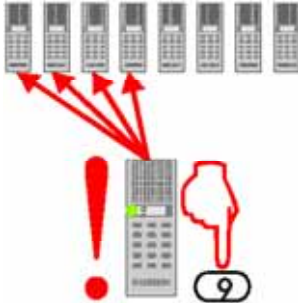
### REPLY TO MESSAGE REQUIRED

- 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



### 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.

## 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.

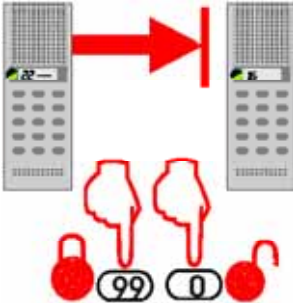
### WITHDRAW FROM LISTEN-IN

- 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.

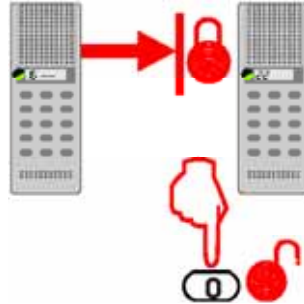
### CALL FROM A STATION IN PRIVACY

- 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.

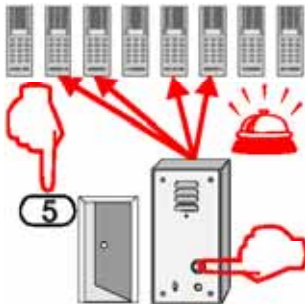
### ACCEPT THE CALL

- 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

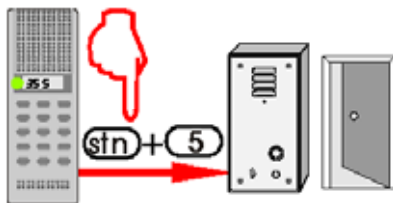
- Push the button on the door station.
  - A tone-sequence is heard in the door station and in the station(s) receiving the doorbell call.
- Press the digit **5**-key on any of the receiving stations to establish connection.
  - The call request is cancelled if not answered within 30 sec. (2 minutes 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.

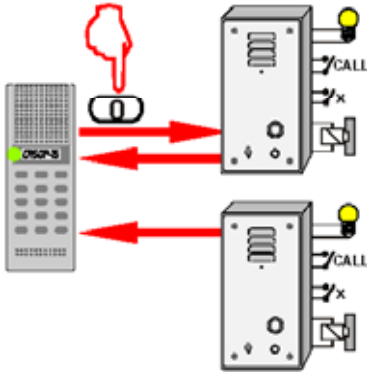
### 10-KEY MODE

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

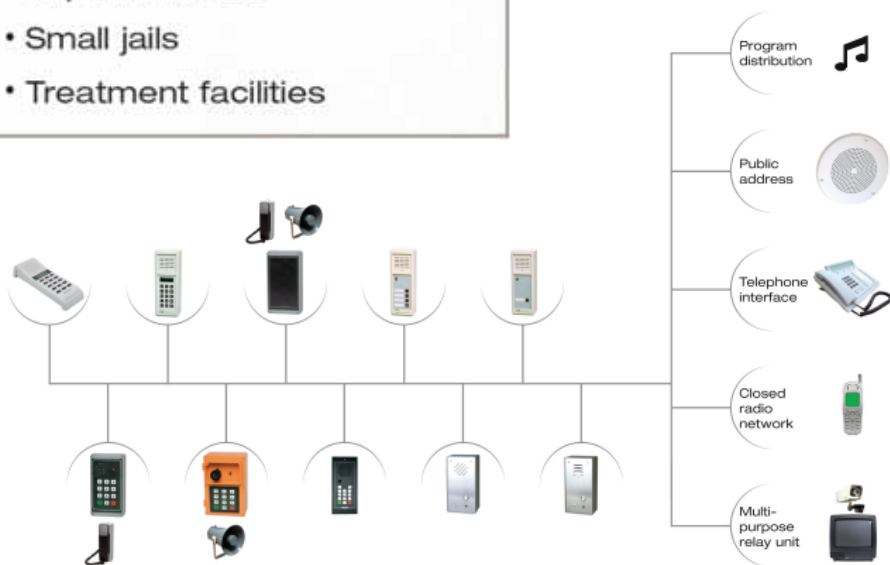
# Pro700 mini manual

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***

