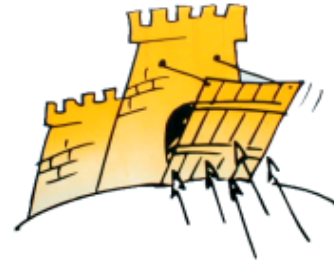




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DELTA,



...the talented intercom system!

A photograph of a SITEC Delta intercom system. It features a black gooseneck microphone with a red ring at the top, mounted on a white and black base. The base has a speaker grille and several control buttons, including a red one and a green one. The background is a light yellow and white gradient.

Operator's Manual



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General Safety Instructions

1. Appropriate Use

The DELTA intercom system has been specially developed for use in banks, at cash desks, company reception areas or gatehouses, stations, night desks, ticket offices, border crossing points, customs offices, tollbooths, currency exchanges, government offices and authorities, and transfer locks.

The intercom system affords perfect and easy communication between the system operator (employee) and the public (customer).

The DELTA intercom was specially developed for these purposes. It is modular in its construction, so that it can be individually suited to the operator's requirements and the building's constraints. The intercom can also be extended at a later stage with the accessories we offer.

2. Operator's Duty of Care

The DELTA intercom was developed and constructed in accordance with a risk analysis and after careful selection of the applicable harmonised standards, as well as other technical specifications. It is therefore state of the art and offers a high standard of safety.

However, this safety standard can only be achieved under operating conditions if all the required measures are taken. It is part of the operator's duty of care to plan these measures and to check that they are carried out.

Please also refer to the safety instructions on the following pages.



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3. Safety Instructions

The DELTA intercom is modular. The electrical connections between the individual components are pre-assembled, colour-coded and pluggable. The connectors have differing contact configurations, so that the individual leads cannot be incorrectly connected, provided force is not used to plug them into the wrong sockets.

Any changes to the cabling must be carried out with the system switched off (take the mains plug out of the socket).

The intercom system should only be operated with SITEC's components and accessories.

WARNING:

**The intercom MUST only be run using the mains adaptor we supply.
If a different one is used, it could cause dangerous touch voltage and electric shocks.**

The intercom must NEVER be connected directly to the mains without the adaptor.

If another manufacturer's products are connected and used in the intercom or in one of its components, we cannot then guarantee the electrical safety and the operational safety of the unit.

The intercom and its components should not be opened up under any circumstances.

The intercom and its components should be protected from extreme heat, cold and careless handling.

The intercom has been designed for use in dry areas indoors only, although certain components (loudspeakers, microphones) can also be operated outdoors. Please contact our customer service for further information.

The intercom and its components must be protected from damp: no fluid should enter the parts under any circumstances.

If the intercom or its components are brought from a cold room into a warm one, condensation can arise. A two-hour acclimatisation period should be allowed before operating the unit.



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4. Conditions of Guarantee

We offer a guarantee period of two years from delivery date on all our parts. The guarantee is limited to faults which can be attributed to material and production faults.

We regret that our guarantee does not cover faults in the intercom which have been caused by careless or inappropriate handling.

Our guarantee is also not applicable if the intercom or its components has been repaired or opened up by the customer.

If another manufacturer's products are connected to the intercom, it can affect the intercom or its components. In this case, we regret that this is not covered by our guarantee.

Our guarantee is limited to our own products and we accept no liability for consequential damages.

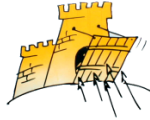
Please send guarantee claims in writing directly to our customer services, together with all DELTA intercom components.

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Product Description

1. Assembly and Product Functions

The DELTA intercom system consists as a minimum of a central control with mains adaptor, a main control and an extension.

The central control is the central point of the system. The electricity supply, the main control and the extension are connected to it.

One extension can be connected directly to the central control. Up to three more extensions can be connected to the central control using signal boosters, giving a total of up to four possible extensions.

These details all refer to our standard central control. However, we also offer an enhanced central control, to which one extension can be directly connected and up to seven further extensions using signal boosters, thus offering up to eight extensions.

The intercom main control is operated by the system operator (employee).

Communication with the public (customer) is via a swan-neck microphone and a loudspeaker, which are both integrated into the main control.

Communication is usually in full duplex mode, i.e. both sides can speak and hear at the same time. A 'speech balancer' automatically controls the direction of speech, and noisy feedback is thereby kept at a minimum.

If the building construction is particularly unfavourable, the intercom may have to be operated in half-duplex mode or in alternating-speech mode, to avoid feedback.

The employee controls the various functions of the intercom or the connected equipment (announcement loudspeaker, door opener).

Accessories such as a headset or an additional loudspeaker can be connected to the main control using appropriate connectors.

In addition, various functional parameters can be modified using the main control menu, in order to adapt the intercom to the specific operational environment.

The customer uses the extension to communicate with the employee. An extension always consists of a microphone and a loudspeaker, but they can vary in their design and configuration, depending on the type of extension.

Some extension designs have a call button so that the customer can call for attention. When pressed, a gong sounds at the main control. The communication always starts on the employee's side, so that the customer does not have to press any other buttons.

Note: Where there are several extensions, the employee has to select the appropriate extension with which he wishes to communicate. Simultaneous connection to several extensions is not possible.

The extensions cannot communicate with each other either.



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2. Environmental Conditions

The operator must ensure that the DELTA intercom is only operated when functioning properly, and in good condition.

The room temperature for the intercom can be anywhere between -10°C und $+60^{\circ}\text{C}$. A wider temperature range requires a special product: please contact our customer service for further information.

The intercom and its components should not be exposed to strong vibrations.

If the intercom or its components are brought from a cold room into a warm room, condensation can arise. In this case, a two-hour acclimatisation period should be allowed before the system is operated.

The intercom is only designed for use in a dry environment, although certain components (loudspeakers, microphones) can also be operated outside. Please contact our customer service for further information.

The intercom and its components must not be exposed to damp, and no liquids should be allowed into the individual parts.



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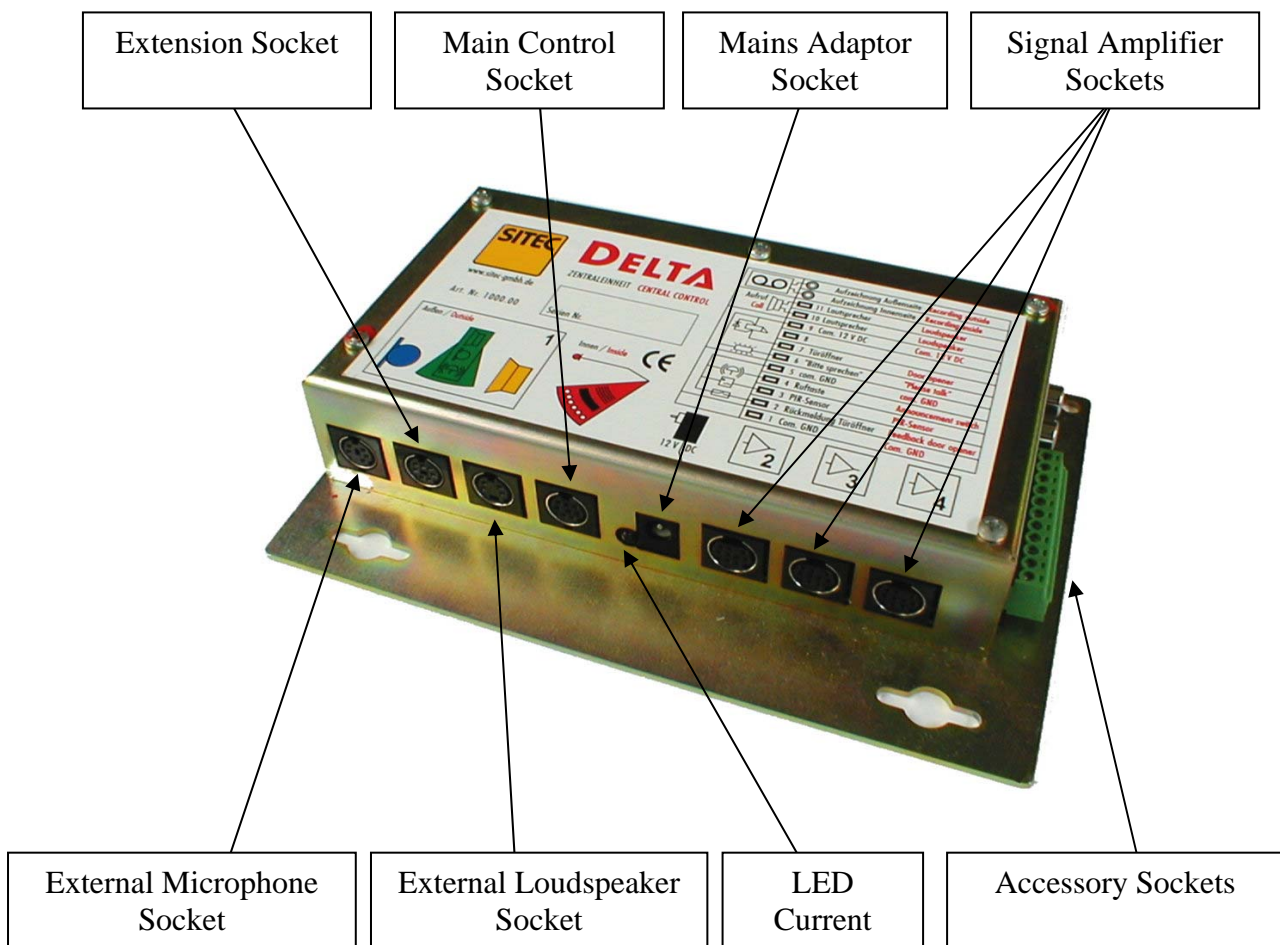
3. Assembly and Set Up

The individual components have pluggable connecting leads. The plugs are colour coded and should be plugged into the corresponding sockets.

The connectors have a variety of contact configurations, thus preventing the individual leads from being mixed up, provided they are not pushed forcefully into the wrong sockets.

The electrical installation of the intercom and its components should only be carried out with mains disconnected (remove mains adaptor plug from socket).

Overview of Central Control connections:

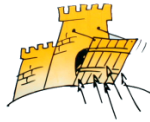


The external loudspeaker and external microphone should be as far away from each other as possible and should not be installed directly opposite each other, in order to avoid feedback. The microphones should be set up or installed at speaking height if possible.

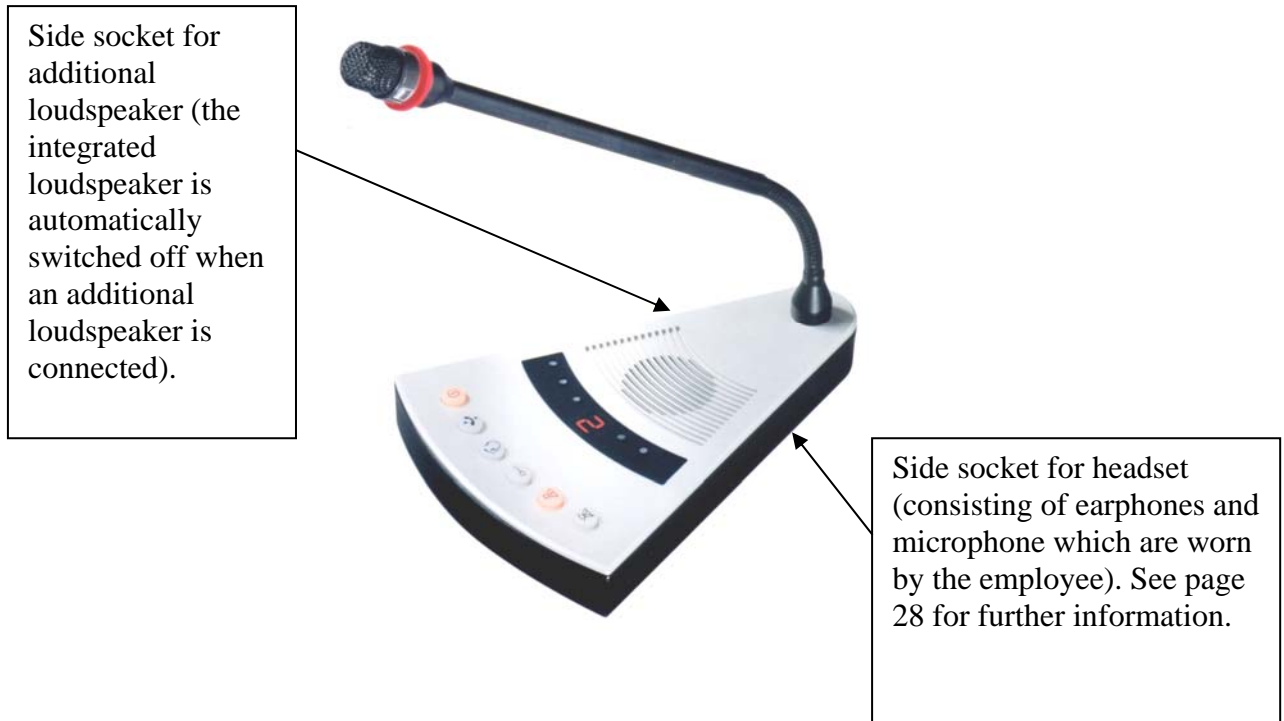
There is more information on connecting accessories (call button, door opener) from page 31 onwards.



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Connections to the Main Control:



The DELTA intercom has optional additional loudspeakers, wired headsets or wireless radio headsets. Please contact our customer service or sales department for further information.

Note: Only our own original accessories should be connected to the sockets. If components from another manufacturer are connected and operated, we cannot guarantee the electrical safety and the operational safety of the system.
This may even lead to the intercom being damaged.



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4. Commissioning

Once all the electrical connections have been put in place, the DELTA intercom can be switched on. The mains adaptor should now be installed and connected.

The connecting plug on the mains adaptor should be plugged into the appropriate socket in the Main Control (see sketch on previous page).

The mains adaptor is then connected to a socket (230V AC - 50 Hz). When the red LED beside the mains adaptor connection is lit, it indicates that the intercom is getting current.

WARNING:
The intercom must never be connected directly to the mains without the mains adaptor.

Once the intercom is getting current, it carries out an auto-test.

At this point, all the function buttons light up simultaneously for a brief moment and an “8” shows in the display. This helps the operator establish if all the display elements are working properly.

The system then carries out an automatic RESET, indicated by an “r” in the display.

Once all the buttons are extinguished and there is nothing more to be seen in the display, the auto-test has been completed successfully.

Note: In a system with several extensions, the number of the current connection appears in the display.

If this does not happen, there is a fault. Please check the leads on the individual components again.

If there appears to be no fault in the wiring, the intercom should be manually reset. (See p.29 - “Reset to Factory Settings”.)

Note: When this function is carried out, all the settings changed so far are deleted and replaced with the standard settings.

If using the “Reset to Factory Settings” function does not bring an improvement, or if this function cannot be carried out, there may be a technical fault. In this case, please contact our customer service.

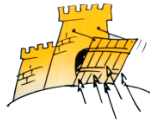
If the intercom was started successfully, it may be necessary to change certain equipment parameters. (Operating several extensions, or having accessories connected, changing the operation mode, etc.)

All the possible settings are described in detail from p. 22.

The basic operating functions of the DELTA intercom system are described below.

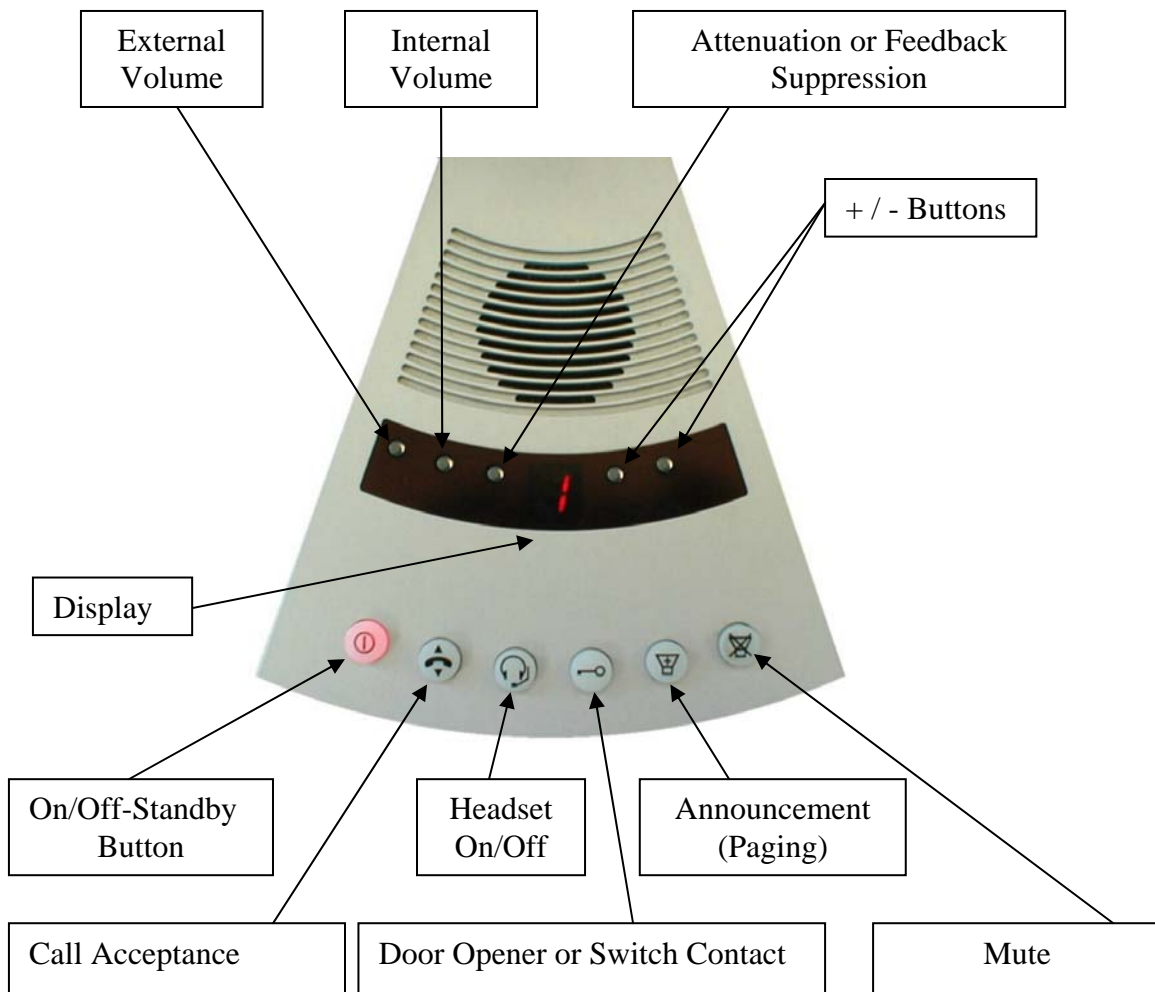


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Using the Intercom

1. Description of the Controls





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2. Operating the Intercom

The following details refer first of all to an intercom with one main control and one extension whose condition is as delivered.

Any operating functions which differ are explained in detail from page 18.

2.1 Switching the Intercom On



Briefly press the on/off button.

When the button lights up, it indicates that the system is ready for operation.

The ring on the swan-neck microphone also lights up as a check that it is functioning.

The intercom is now ready to operate and employee and customer can communicate with each other.

2.2 Switching the Intercom to Standby Mode



Briefly press the on/off button.

The button light changes from a fixed light to a flashing light, thereby indicating standby mode.

The light on the swan-neck microphone ring goes out.

The intercom is now in standby mode. Communication in both directions is interrupted and conversations are no longer transmitted.

As the extension call button (gong) continues to operate even in standby mode, it is sensible to use this function to switch off the intercom meanwhile, if there is no customer there. A new customer can call the employee's attention at any time using the call button.

The intercom can also be switched to standby mode automatically and depends on menu function 5 in the set up menu. Further information is on page 27.



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2.3 Cancelling Standby Mode



Briefly press the on/off button.

The button changes from a flashing light to a fixed light, indicating that the intercom is ready to operate.

The swan-neck microphone ring also lights up to show that it is functioning.

The intercom is now ready to operate and employee and customer can communicate with each other. Standby mode can also be cancelled automatically and depends on the set up in menu function 4 in the set up menu. Further information can be found on page 27.

2.4 Switching Off the Intercom



Press the on/off button for longer than 2 seconds.

The light on the button goes out, indicating that the intercom is switched off.

The light on the swan-neck microphone ring goes out.

The intercom can be switched off from either 'on' mode or 'standby' mode. This function should be used when the intercom is not to be used for several hours, e.g. at closing time. The intercom can be switched on again at any time by pressing briefly on the on/off button.



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3. Setting Volume and Attenuation

The volume and attenuation levels can be increased or reduced by 16 levels each. AS the LED only displays one digit, the 16 levels are shown in hexadecimal code.

0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - A - b - C - d - E - F

“0” is the lowest and “F” is the highest volume or attenuation.

3.1 Set External Volume

Increase volume



Hold down the “external volume” button. The display shows the current volume level for the extension (external loudspeaker).

Press the “+” button. Each time it is pressed, the volume is increased by one level up to the maximum.

The volume should only be increased far enough to allow clear communication, and to avoid feedback.

Reduce volume



Hold down the “external volume” button. The display shows the current volume level for the extension (external loudspeaker).

Press the “-” button. Each time it is pressed, the volume is decreased by one level down to the minimum.



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3.2 Set Internal Volume

Increase volume



Hold down the “internal volume” button. The display shows the current volume level for the main control (internal loudspeaker).

Press the “+” button. Each time it is pressed, the volume is increased by one level up to the maximum.

The volume should only be increased far enough to allow clear communication, and to avoid feedback.

Reduce volume



Hold down the “internal volume” button. The display shows the current volume level for the main control (internal loudspeaker).

Press the “-“ button. Each time it is pressed, the volume is reduced by one level down to the minimum.

3.3 Set Attenuation

The Delta intercom uses an automatic speech equaliser.

Its intelligent electronics automatically reduce the volume of the direction of speech which is not in use. This suppresses feedback as far as possible.

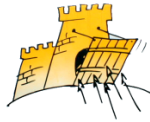
If the configuration of the intercom components is not optimum, or if the environment is not favourable (large rooms with a lot of echo), there may be feedback nonetheless. In this case, the speech equaliser settings will need to be changed. This is achieved by increasing the attenuation.

Even when the volumes have been increased to improve communication, the attenuation will usually need to be adjusted too.

The attenuation level is preset at “8” on the employee’s side and cannot initially be adjusted, as this function is disabled. In order to adjust the attenuation level, you first have to enable this function using menu function 8 of the set up menu. See page 28 for further information.



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Increasing Attenuation



Hold down the “Attenuation” button. The display shows the current attenuation level (preset at “8”).

Press the “+” button. Each time it is pressed, the attenuation is increased by one level up to the maximum.

Reducing Attenuation



Hold down the “Attenuation” button. The display shows the current attenuation level (preset at “8”).

Press the “-“ button. Each time it is pressed, the attenuation is decreased by one level down to the minimum.

The attenuation level should only be increased far enough to achieve an optimum suppression of feedback. The higher the attenuation level, the greater the risk that individual syllables may be cut out of conversations.

If the maximum “F” level is reached, the system will be working in half-duplex mode. In this case, the direction of speech not in use will be completely suppressed, which could cause problems if people speak simultaneously at both sides.

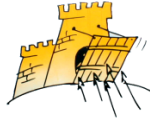
Often, in adverse conditions, optimum communication can only be achieved if there is a compromise between volume and attenuation.

If, in particularly adverse conditions, there is no optimum communication using the automatic speech equaliser, the intercom can be used in alternating speech mode. In this mode only the communication from outside inwards is active, so that the employee hears what is said on the customer side. In order to speak to the customer, the employee has to switch the direction of speech manually. He does this by holding down the “mute” button while he is speaking. Alternating speech mode is activated using menu function 0 of the set up menu. Please see page 24 for further information.

Note: In systems with several extensions, volume and attenuation and alternating speech mode can be set up individually for each connection. If a headset is connected to the system, the volume can also be set separately for that.



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4. Special Functions

Depending on the DELTA intercom's configuration (number of extensions, accessories connected), the following functions can be carried out, using the function buttons on the main control.

4.1 Receiving Calls

If several extensions are connected to the intercom, use the "call receive" button to connect to a specific extension.

Note: The extensions need to have been activated using menu function 9 in the set up menu, as otherwise there will only be a connection to the first extension. Please see page 29 for further information.



Use the + and – buttons to select the extension to which a connection is to be established. The number of the selected extension (e.g. no. "2") flashes faintly, alternating with the dark number of the current connection (e.g. no. "1").



Press the on/off button to confirm the connection to the selected extension.

The employee can now communicate with the customer via the selected extension. This connection remains in place until another extension is selected using the same method. If you do not need to switch to another extension, you can leave switch mode again by pressing the "external volume" button. If no other button is pressed in the next 10 seconds, then the intercom automatically leaves switch mode.

The volume and attenuation levels can be set individually for each extension. The levels set are automatically stored and applied when a connection is made to the required extension.



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Note: If the system is in standby mode, select the extension using the + and – buttons, and by pressing the on/off button to switch on the intercom, the connection to the required extension can be made simultaneously.

If the employee only wants to connect briefly to another extension, e.g. to answer a quick question by another customer and then return to the first customer, this can be done as follows:



Use the + and – buttons to select the extension to which you wish to connect briefly. The number of the extension selected (2) flashes lightly, alternating with the dark number of the current connection (1).



By pressing the “call receive“ button, the existing connection is temporarily interrupted and you are connected to the selected extension.

Pressing the button again returns you to the original connection.

The employee and customer at the second extension can communicate with each other after the button is pressed. The customer at the first extension cannot listen into the conversation. When the button is pressed again, the employee can speak with the first customer again. It is not possible to communicate with both customers simultaneously.

If the call button is pressed on an extension, a gong usually sounds on the loudspeaker of the main control. This depends on the set up of menu function 3 in the set up menu. Please see page 26 for further information.

The number of extension calling flashes lightly for a while in the LED display, alternating with the dark number of the current connection.

Just as with selecting the extension, a permanent connection can be made by pressing the on/off button, or a temporary one by pressing the “call receive” button.



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4.2 Headset On/Off

If there is a headset connected to the main control of the Delta intercom (consisting of earphones and microphone, worn by the employee), you can switch to headset operation by pressing this button. Pressing on this button again returns you to normal operation.



Press the “Headset On/Off” button to switch the intercom to headset operation.

Pressing this button again returns you to normal operation.

Note: The swan-neck microphone integrated in the main control is always switched off when the headset is operating. You can select to hear the customer’s reply, however, either through the earphones or the main control’s loudspeaker. The setting in question is carried out using menu function 7 in the set up menu, and for further information see page 28.

4.3 Door Opener or Switch Contact

A switch contact is available on both the main control of the Delta intercom and the extension signal amplifiers (See p.31ff for description of connection). This switch contact allows you to e.g. control a door opener. When the “door opener/switch contact” button is pressed, the switch contact controls the connected function for about 3 seconds.



When the “door opener/switch contact” button is pressed, the connected function, e.g. a door opener, is controlled for about 3 seconds.

Note: If the door opener also has a feedback signal connected, the button flashes when the door is open. Further information on connecting the feedback contact is on page 32.



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4.4 Announcements/Paging

For as long as this button is pressed, either the volume to the extension which is connected at that time is increased, or you are switched to a separate paging loudspeaker, which may e.g. be in a waiting room.

This depends on the configuration of menu point 6 in the set up menu; further information is on page 28.

This function allows the employee to make an announcement or to call the next customer.



As long as the “Announcements/Paging” button is pressed, either the volume of the extension increased, or the announcement goes via a separate loudspeaker, which could e.g. be in a waiting room.

4.5 Mute

This button allows the employee temporarily to mute communication from inside to out, so that the customer cannot hear what is being said on the inside. Mute is activated either by pressing the button briefly, or for as long as the button is held down. This depends on the configuration of menu function 0 in the set up menu; further information can be found on page 24.

This button can also be used to speak by the employee when the intercom is in alternating speech mode.



Pressing the “mute” button halts communication between inside and outside. Pressing the button again cancels the mute.

In alternating speech mode, the employee can use this button to speak.



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Intercom Set Up

1. Accessing the Set Up Menu

The Delta intercom has a set up menu in order to be best suited to the local operating conditions.

The set up menu is divided into 10 menu functions (0-9).

The first 4 menu functions (0-3) can be set up separately for each extension.

This means that the connection to the appropriate extension must be selected before calling up the set up menu. Menu functions 4-9 are the same for all extensions. If they are to be changed, it is immaterial which extension is connected at that moment.

To access the set up menu and make changes, the following steps should be followed:



Press the + and – buttons simultaneously for about 2 seconds.

A “0” appears in the LED display with a flashing dot.



The individual menu functions can be selected using the + and – buttons.

The menu function in question is indicated by the number (in this case “7”) and the flashing dot.

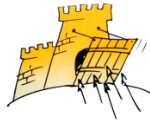


To call up the set up of the menu function in question, press the “attenuation” button.

The LED display now shows the chosen value (in this case “0”), and the flashing dot is no longer shown.



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The value can now be modified using the + and – buttons (in this case from “0” to “2”).



Press the “external volume” button to leave the menu function. The value selected will thereby be adopted and stored.

The intercom returns to normal operating mode, and the current connection is shown in the LED display.

If no buttons are pressed within 10 seconds, the intercom automatically switches back to normal operating mode, and this way modified values are also stored.

2. Overview of Menu Functions

0:	Mute	These menu functions can be set individually for each extension connection.
1:	Extension Mode	
2:	External Gong Volume	
3:	Internal Gong Volume	
4:	Standby	These menu functions apply equally to all connections to the individual extensions.
5:	Time until Standby	
6:	Announcement Loudspeaker	
7:	Headset with Loudspeaker	
8:	Attenuation adjustment	
9:	Number of Extensions	



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3. Explanation of the Menu Functions

The following explains the individual menu functions in detail.
The value in bold is the status at delivery.

3.1 Menu function 0 - Mute

This menu function adjusts the settings for the “mute” button.
This function can be set separately for each extension.

0:	Press this button to mute sound from inside to outside. Press again to cancel mute.
1:	Communication from inside to outside is muted as long as button is held down.
2:	Alternating speech mode: Only communication from outside to inside is activated. When the button is pressed, communication is switched to inside to outside.

3.2 Menu Function 1 - Extension Mode

This menu function sets the intercom for the type of extension in question (extension with microphone and loudspeaker, or extension with telephone receiver).
With this menu function, you must first select whether the extension is connected directly to the central control or through an extension amplifier.
In the case of an extension which is connected directly to the central control, the following settings should be used.

Setting:	Extension type:
0:	Extension with microphone and loudspeaker
1:	Extension with telephone receiver

In the case of an extension with telephone receiver, setting “1” means that the communication link is only activated once the receiver has been lifted. The message “please speak” is displayed simultaneously. When the receiver is put down, the communication is muted again. If the intercom is in standby mode, a gong tone is sounded in the main control’s loudspeaker when the telephone receiver is lifted.
(Note set up of menu function 3 - Gong internal volume, see page 26.)

Note: The settings “0” and “2”, and settings “1” and “3” are identical in this case.



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In systems with several extensions which are connected through signal amplifiers, this menu function is a little more complex.

As each signal amplifier only has one switch output and one switch input, the way these connections function must be set using this menu function.

The switch output can e.g. either light up the “please speak” message display at the extension or control a door opener connected to the signal amplifier.

If a bell button has been connected to the switch input, the hook switch function on extensions with a telephone receiver will not be available.

This menu function can be set separately for each extension.

Brief summary of the possible settings:

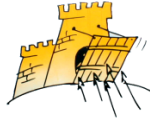
Setting:	Switch Output Function:	Bell Input Function:
0:	“Please speak” display	Bell button
1:	“Please speak” display	Telephone receiver hook switch
2:	Door opener	Bell button
3:	Door opener	Telephone receiver hook switch

Explanation of the possible configurations:

0:	The message display “please speak” is activated at the extension as soon as the main control connects to it. If a bell is pressed at the extension, a gong sounds in the loudspeaker of the main control.
1:	The message display “please speak” is activated at the extension as soon as the main control connects to it. If the extension has a telephone receiver and it is lifted, a gong sounds in the loudspeaker of the main control.
2:	Pressing the “door opener/switch contact” button at the extension activates the switch output for about 3 seconds. The message “please speak” is displayed at the same time. If the bell button is pressed at the extension, a gong sounds in the loudspeaker of the main control.
3:	Pressing the “door opener/switch contact button at the extension activates the switch output for about 3 seconds. The message “please speak” is displayed at the same time. If the extension has a telephone receiver and it is lifted, a gong sounds in the loudspeaker of the main control.



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3.3 Menu Function 2 - External Gong Volume

This menu function allows the external gong function to be set.
This function can be set up separately for each extension.

- 0: When the “Announcements/Paging” button is pressed, there is **no gong sound** in the announcement or extension loudspeaker.
- 1: When the “Announcements/Paging” button is pressed, there is a **soft gong sound** in the announcement or extension loudspeaker.
- 2: When the “Announcements/Paging” button is pressed, there is a **loud gong sound** in the announcement or extension loudspeaker.

3.4 Menu function 3 - Internal Gong Volume

This menu function sets the gong function on the inner side.
This function can be set separately for each extension.

- 0: When the extension bell button is pressed, there is **no gong sound** at the loudspeaker of the main control. The display simply shows the number of the extension calling, which alternately flashes lightly against the dark number of the current connection.
- 1: When the extension bell button is pressed, **a soft gong sounds** at the loudspeaker of the main control. In addition, the number of the extension calling alternately flashes lightly against the dark number of the current connection.
- 2: When the extension bell button is pressed, **a loud gong sounds** at the loudspeaker of the main control. In addition, the number of the extension calling alternately flashes lightly against the dark number of the current connection.



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3.5 Menu function 4 - Standby

This menu function can be used to cancel the standby function.

This function applies to all the connections to the individual extensions.

- 0: No standby function
- 1: The standby function can only be cancelled using the on/off button.
- 2: The standby function can either be cancelled using the on/off button or if someone is speaking externally.
In addition to speech recognition, a proximity switch connected to the central control signals that a customer is in range.
- 3: The standby is either cancelled using the on/off button or if someone is speaking externally.

3.6 Menu function 5 - Time until Standby

This menu function is used to activate the standby function.

This function applies equally to all connections to the individual extensions.

- 0: Standby function is only activated using the on/off button
- 1: The intercom automatically switches into standby mode if noone has spoken on either side for more than **30 seconds**.
- 2: The intercom automatically switches into standby mode if noone has spoken on either side for more than **60 seconds**.
- 3: The intercom automatically switches into standby mode if noone has spoken on either side for more than **120 seconds**.
- 4: The intercom automatically switches into standby mode if noone has spoken on either side for more than **300 seconds**.



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3.7 Menu function 6 - Loudspeaker during Announcements

This menu function is used for setting whether the extension volume is increased when the “Announcements/Paging” button is pressed, or whether the announcement should be channelled through a separate announcement loudspeaker.

If the function has been activated, announcements always go through a separate announcement loudspeaker, regardless of the extension to which you are currently connected. It is not possible to activate announcements through the loudspeaker of the individual extension, even if the “Announcement/Paging” button is pressed.

If this function is disabled, announcements can be directed to each extension individually.

- 0: Announcement goes through the loudspeaker of the extension to which you are currently connected, with increased volume.
- 1: Announcement goes exclusively through a separate announcement loudspeaker.

3.8 Menu function 7 - Headset with Loudspeaker

This menu function controls whether the customer’s voice sounds in the earphones or in the loudspeaker of the main control when a headset is being used. The swan-neck microphone at the main control is always switched off when a headset is used.

This function applies equally to all the connections to the individual extensions.

- 0: The customer’s reply is heard through the headset earphones.
- 1: The customer’s reply is heard on the loudspeaker of the main control. This function gives the option of connecting a lapel microphone or a neck microphone.

3.9 Menu function 8 - Set Attenuation

This menu function sets whether the attenuation can be modified.

This function should usually always be disabled so that the attenuation cannot be altered unintentionally.

This function applies equally to all the connections of the individual extensions.

- 0: Attenuation cannot be set (disabled).
- 1: Attenuation can be set.



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3.10 Menu function 9 - Number of Extensions

This function is used to set the number of extensions which are connected.
A maximum of 8 extensions can be connected. The appropriate number of extensions is entered directly as a numerical value.
The factory setting is “1” for one extension.

3.11 Reset to Factory Settings

The DELTA intercom can be reset to the original factory settings at any time.
To reset to factory settings, the following procedure should be carried out.

Press
simultaneously



Press the external volume, internal volume and attenuation buttons simultaneously for about 3 seconds.

The letters “S” and “P” flash alternately in the LED display.



Briefly press the + button.

The system is now reset to the factory settings.

Note: If there are several extensions connected to the intercom, the number of extensions must be re-entered in the set up menu using menu function 9 (see previous menu function).



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Technical Data and Connection Diagrams

Technical Data:

Supply voltage:	230 Volts AC / 50 Hz
Operating voltage:	12 Volts DC
Max power output:	4 Watts per circuit
Temperature range:	-10 to +60° Celsius
Relative humidity:	< 90% non-condensing

Non-volatile memory (all data input remain in the memory, even if there is a power cut)

Electret microphones

16-stage volume control which can be set separately for outside and inside

16-stage feedback suppression

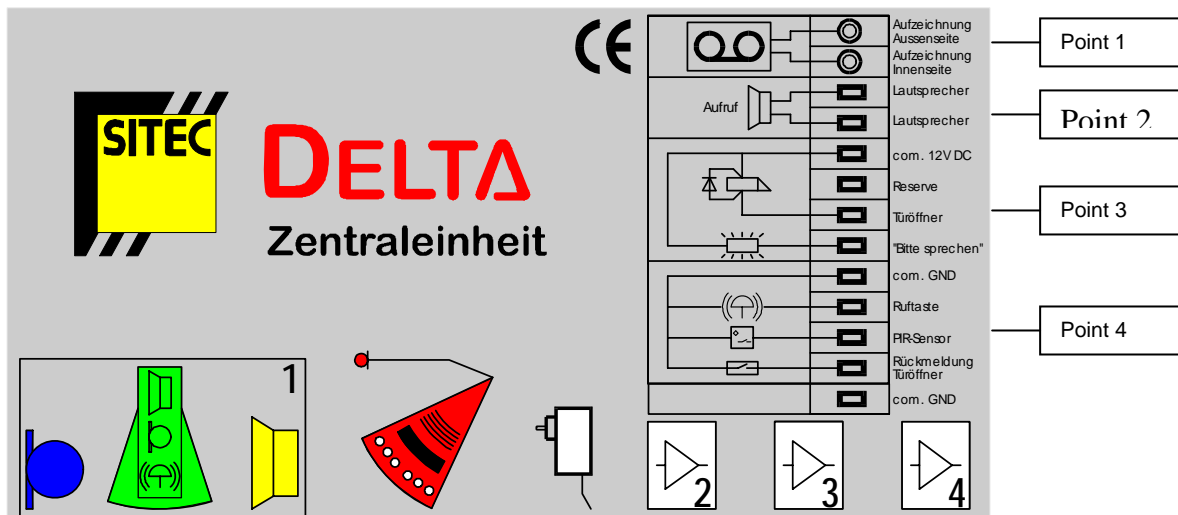
Connection of Accessories:

The central control of the DELTA intercom has connections for accessories.

Warning: Only our own original accessories should be connected to connection points 3 and 4.

If accessories or equipment from another manufacturer are connected to the intercom or any of its components, it may in the worst case destroy the intercom or its components. Our guarantee will unfortunately not be applicable in these circumstances.

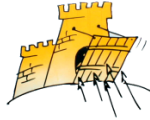
For further information on connecting accessories, please contact our Customer Services.



The possible individual connections are described in detail below.



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Point 1 - Connecting a Recording Device

It is possible to record the conversations held on the DELTA intercom on a standard trade audiocassette using a recording device.

The conversations from outside and inside can be recorded separately on the two stereo tracks of the audiocassette. We recommend a recording device with speech control, which automatically stops recording when nothing is being said.

Point 2 - Connecting an Additional Announcement Loudspeaker

An additional announcement or paging loudspeaker can be connected to the central control of the DELTA intercom. The loudspeaker output needs to be activated using menu function 6 in the set up menu (see also page 28).

If the “announcement” button is now pressed on the main control, the message is relayed over the additional loudspeaker. The loudspeaker should show an impedance of minimum 4Ω and a capacity of minimum 5 watts.

Note: If the Announcement Loudspeaker menu function has been activated, then all announcements will be made through the separate announcement loudspeaker, regardless which extension is connected at that moment. It is not possible to activate announcements through the loudspeaker at the individual extension, even if the “Announcement/Paging” button is pressed.

If this function is disabled, announcements can be targeted to each individual extension.

Point 3 - Connecting a Door Opener and “Please Speak” Message Display.

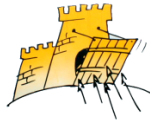
A door opener and a message display can be connected to the central control of the DELTA intercom. If the “Door Opener” button on the main control is pressed, the door opener is controlled for about 3 seconds.

Warning: Only door openers supplied by Sitec should be used. A door opener from other sources may overload and destroy the output level by too high a current consumption.

An external message display with “please speak” can also be connected. This lights up as soon as a connection is made to extension 1.



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Point 4 - Connecting a Call Button, Infrared Movement Detector and the Feedback Contact.

A call button, an infrared movement detector and the feedback contact of the door opener can be connected to the central control of the DELTA intercom.

When the call button is pressed, a gong tone sounds in the loudspeaker of the main control (depending on the set up of menu function 3 in the set up menu – please see page 26 for further information) and the pale number of the extension calling flashes in the LED display, alternating with the dark number of the current connection.

The infrared movement detector is used to determine if someone is standing within speech range of the extension. Depending on the set up of menu function 4 in the set up menu, the intercom can be switched on again automatically from standby mode (see also page 27).

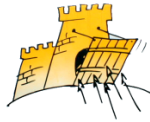
If a door opener with a feedback contact is used, you can query if the door is open or closed. The feedback contact should be connected in such a way that input is switched to minus (GND) when the door is open. When the door is open, the “Door Opener/Switch Contact” button now flashes.

The Signal Amplifier:

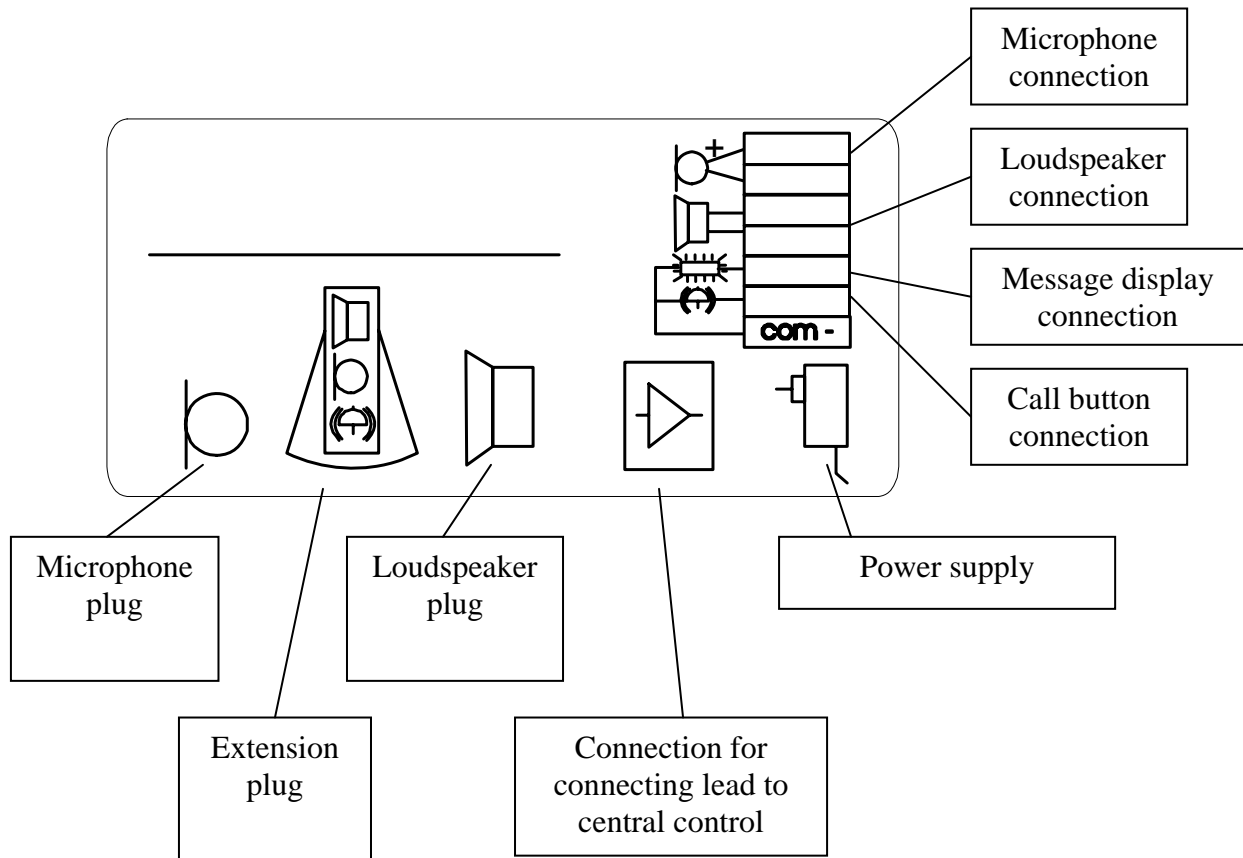
An extension can be directly connected to the central control. Further extensions are connected via the signal amplifier, as shown in the following picture. Each additional extension requires a separate signal amplifier.

Every signal amplifier should be supplied by its own mains connector and voltage.





The signal amplifiers also have connectors for accessories.



Complete extensions can be connected at the signal amplifier using the available plugs. In addition, it is possible to connect the loudspeaker and microphone via the plugs or directly via the screw terminals.

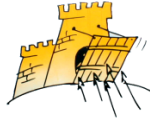
It is also possible to connect a call button and a “please speak” message display.

When the call button is pressed, a gong tone sounds in the loudspeaker of the main control (depending on the set up of menu function 3 in the set up menu – see page 26 for further information) and the number of the extension calling flashes lightly against the dark number of the current connection in the LCD display.

The message “please speak” is displayed as soon as a connection is made to the extension.



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Overview of Components and Accessories

The following components and accessories are available:

THE MAIN CONTROL UNITS:

Desktop version 140 x 195 mm Purch.No. 1030.01 silver Purch.No. 1030.02 black	OR	Built-in version 130 x 190 mm Purch.No. 1032.01 silver Purch.No. 1032.02 black
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ATTACHMENTS FOR MAIN CONTROL

Headset Purch.No. 1015.00	OR	Cordless headset Purch.No. 1016.00
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THE EXTENSIONS:

Desktop version with microphone, loudspeaker and call-button Purch.No. 1035.01 silver Purch.No. 1035.02 black	OR	Built-in version with microphone, loudspeaker and call-button Purch.No. 1037.01 silver Purch.No. 1037.02 black	OR	Telephone receiver with microphone, loudspeaker and call-button Jnoax Purch.No. 1040.00 surface mounted Purch.No. 1041.00 built-in	OR	Door intercom system with microphone, loudspeaker and call-button Jnoax Purch.No. 1050.00 surface mounted Purch.No. 1051.00 built-in	OR	Three panel strip with microphone and loudspeaker 600 mm long or alternative lengths as required Purch.No. 1060.01 silver Purch.No. 1060.02 black
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OR YOU CAN HAVE EXTENSIONS COMBINED WITH MICROPHONES:

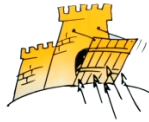
Capsule microphone Ø 12 mm Purch.No. 1100.00	OR	Swan-neck microphone with illuminated ring 80 x 120 mm Purch.No. 1105.01 silver Purch.No. 1105.02 black	OR	Built-in microphone with cover plate 140 x 140 mm Purch.No. 1110.01 silver Purch.No. 1110.02 black	OR	Desktop microphone 140 x 132 x 105 mm Purch.No. 1120.01 silver Purch.No. 1120.02 black
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AND LOUSPEAKERS:

Loudspeaker for installation Ø 90 mm Purch.No. 1200.00	OR	Ceiling loudspeaker Ø 105 mm Purch.No. 1205.03 white	OR	Built-in loudspeaker with cover plate 140 x 140 mm Purch.No. 1210.01 silver Purch.No. 1210.02 black	OR	Desktop loudspeaker 140 x 132 x 105 mm Purch.No. 1220.01 silver Purch.No. 1220.02 black
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Declaration of Conformity



Konformitätserklärung

Declaration of Conformity

Hersteller: Fa. SITEC GmbH
Manufacturer: Johann-Georg Herzogstraße 17-19
D-96369 Weißenbrunn-Hummendorf - Germany

Wir erklären, daß das Produkt
We declare that the product

Bezeichnung des Gerätes: *Sprechanlage*
Name of device:

Gerätetyp: *"Delta"*
Type of device:

mit den folgenden **Europäischen Richtlinien** übereinstimmt.
corresponds with the following Guidelines of the European Community.

EMV-Richtlinien 89/336/EWG
Electro-magnetic conformity

Bei einer nicht mit uns abgestimmten Änderung des Gerätes verliert
diese Erklärung ihre Gültigkeit.
In case the product will be changed without our agreement, this declaration is no longer valid.

Zur Beurteilung des Erzeugnisses wurden folgende Normen herangezogen:
In order to judge the equipment, the following norms were considered

<i>EN 55 022:1998</i>	<i>EMV - Störaussendung (Emission)</i> <i>Radio disturbance</i>
<i>EN 55 082 - 1:1997</i>	<i>EMV - Störfestigkeit (Immunität)</i> <i>Generic Immunity Standard</i>
<i>EN 50 024:1998</i>	<i>EMV - Störfestigkeit (ITE)</i> <i>Immunity Standard (ITE)</i>

Diese Erklärung wird verantwortlich für den Hersteller abgegeben durch
This declaration is liably handed over for the manufacture by

Weißenbrunn, den 26.10.2000

Olaf Clausen - Geschäftsleitung



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Notes:



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Notes:



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Notes:



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Notes:

Status: October 2007
Author: SITEC Sales/Tech. dept.
Translation: Hilary Swanston
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