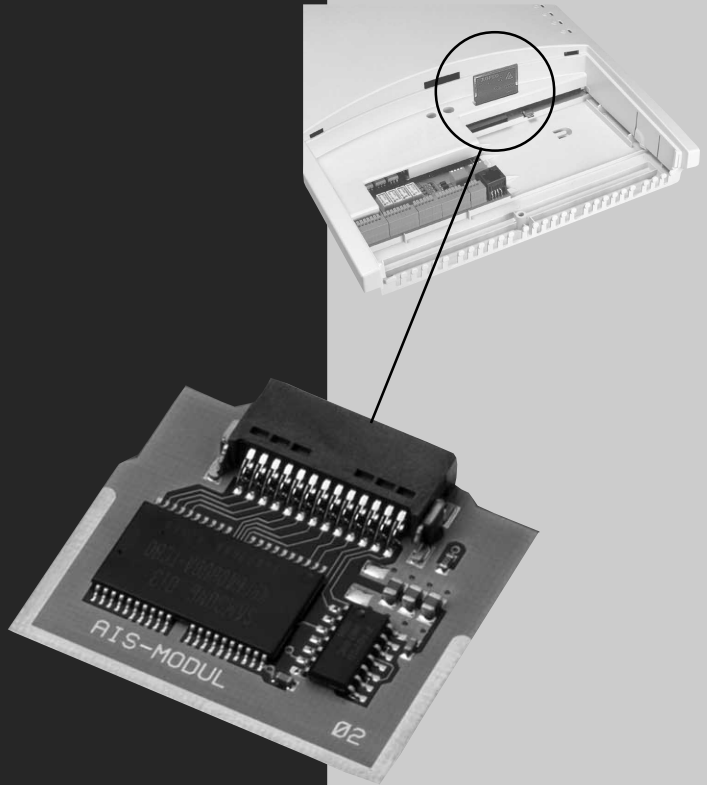


AIS Module for AS 1x, 2x, 3x



About this manual

This instructions apply to the shipping version of the product. If the Manufacturer provides new software modifying product functions, individual sections of these instructions might be invalid.

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AIS Module

Introduction

Using the AIS module controlled by the digital signal processor of your TK system, you can expand your system by adding an Audio Information System.

The AIS module will enable you to integrate individual messages and waiting loops (on-hold states) into the system. You may activate an announcement for up to two callers simultaneously to be played before answering, or if the line is busy.

The "Message prior to answering" function can be used for 2 external lines, and can be configured to provide the caller first with a message prior to connecting, or to deliver the announcement in the event of a busy user or group.

Individual on-hold music can be played using the AIS Configurator.

The shipping version of the AIS module has pre-installed on-hold music and announcements.

Audio files may be used to play informational messages, advertising or music.

In case of music, please follow copyright laws.

With the AIS Configurator you can select individual .wav files (Standard Windows PCM Format), or converted MP3 files and assign them to different message types, for example, greeting, on-hold, door, sensor and wake-up alarm.

You can create these .wav files yourself or obtain them from commercial sources (see standard tunes).

Wake-up alarm times can be set from individual telephones by using the keypad. At a specified time you can receive a call with a message, for example "This is your wake-up call. The time is ..."

If you have a telephone system connected to door sensors, a call to an internal or external number may be initiated in the event a sensor is activated. You can assign a message to such calls, for example "Sensor door one has been activated."

In order to identify a call from the door, for example, you can play various signals (e.g., doorbell) using audio files.

System requirements

Installation of the software package requires the following system components.:

- AGFEO ISDN TK System AS1x, 2x or 3x (all Version 5.0 or above)
- IBM or compatible PC with hard drive and CD-ROM drive
- Pentium II or better
- Minimum of 64 MB RAM
- Microsoft Windows 98/2000, ME, NT 4.0 or XP
- USB interface (not under NT 4.0) or ISDN adapter (e.g., internal ISDN card)
- Sound card, microphone and speaker (optional) to record or listen to audio files on the PC (optional)

AIS Module

Included products

- | | |
|--|--------------------|
| 1 AIS module | 1 firmware element |
| 1 Set of operating / installation instructions | 1 AIS Configurator |
| 1 TK Suite software package | |

Accessing the connector panel

- Insert a screwdriver into the slot in the connector panel cover and press.
- Pull the cover from the housing in the direction of the arrow.



CAUTION: Remove the 230 V power connector from the socket before opening the housing!

Safety precautions

1. Remove the 230 V power connector from the socket.
2. Remove the Western plug from all external ISDN base connections on the TK system, network terminal or S0 bus.
3. Briefly touch the metal cover of the PC printer connector on the bottom of the TK system. This will discharge any static electricity which might damage the components of the TK system.

AIS Module

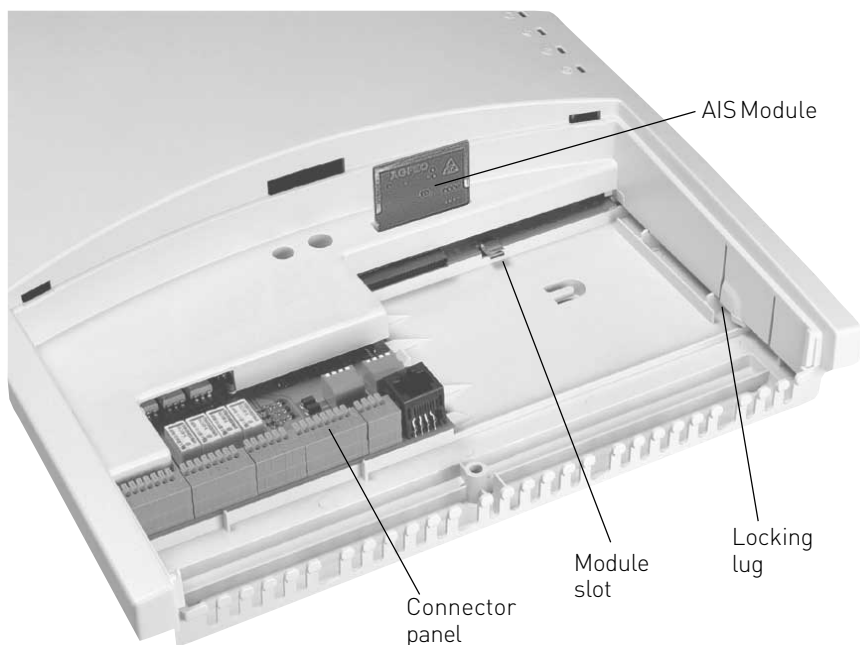
Module installation

Remove the module from the packaging

SAFETY PRECAUTION

Prior to removing the module from the packaging and installing it into the telephone system, briefly touch your finger to the metal cover of the PC / printer connector on the bottom of the telephone system. This will discharge any static electricity which might damage the components of the TK system.

Place the module with the connector strip so that the unpopulated side faces the connector panel of the telephone system.



(Illustration shows the AGFEO AS 2x, the AS 1x and 3x are different, but the module slot is identical.)

Operation

Close the housing !

Turn on the telephone system by plugging in the 230 power connector.

Once the TK Suite Set Configurator selects the telephone system, the AIS module is displayed under Telephone system - Hardware.

AIS Module

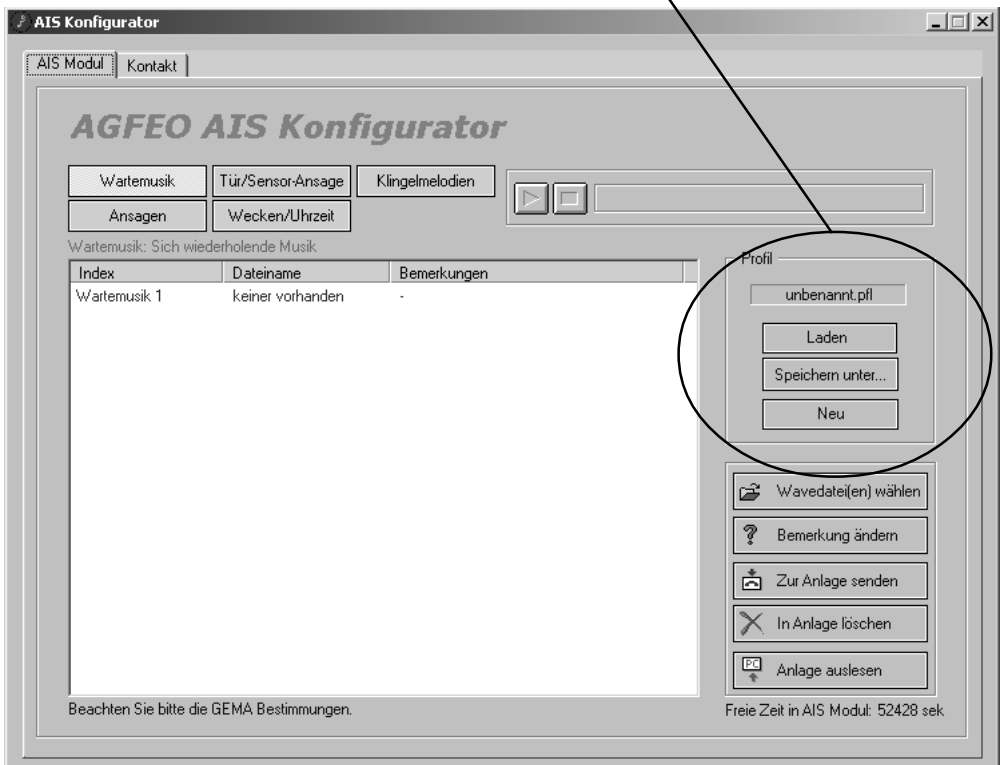
Configuration

Once you have installed the AIS module and have programmed TK Suite Set, start AIS Configurator. By clicking on the "Read system" button, AIS data are read out from the TK system. Please make sure that the AIS Configurator communicates with the system using the X.31 protocol. If you are using TK Suite Basic with a permanent X.31 connection, you have to close TK Suite Server in order to use the AIS Configurator.

The AIS Configurator will offer possible message variants as well as editing fields.

In the Profile pane, you can:

- Load an existing AIS configuration
- Save a new AIS configuration
- Create a new configuration



AIS Module

Configuration

In the Communication pane you can:

Select a .wav file on your PC (an index must be highlighted for this)

Send a new AIS configuration to the system

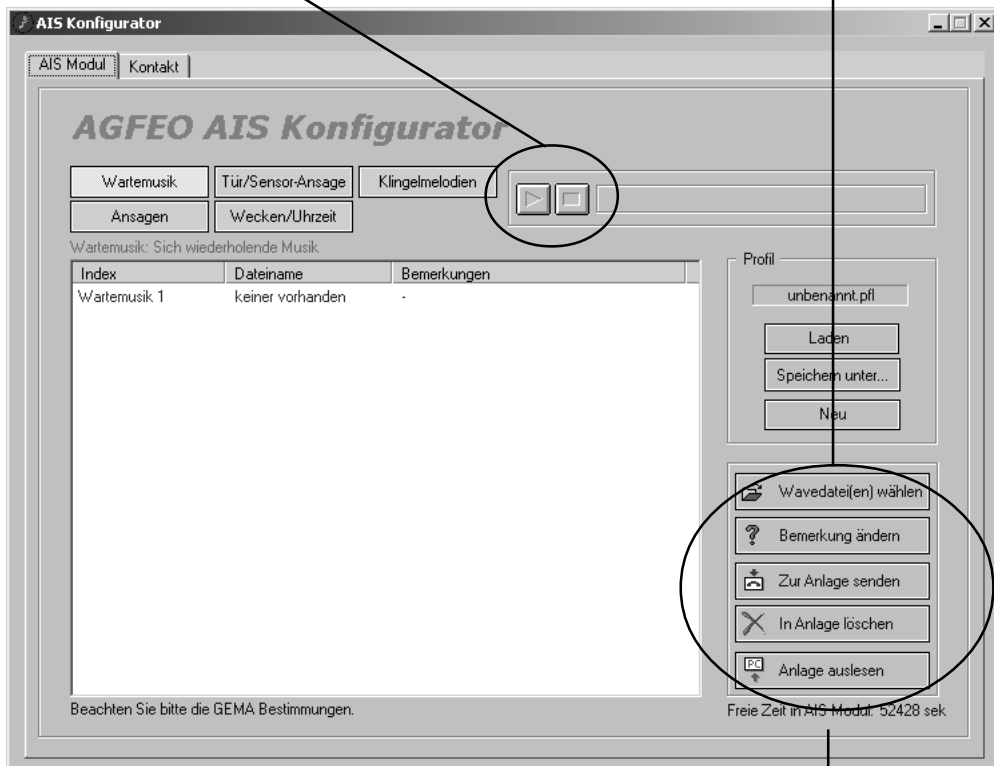
Delete an existing AIS configuration in the TK system.

Read out an AIS configuration from the system.

You can change a comment in the message pane by double-clicking with the left mouse key which activates the editing mode.

Loading .wav files into the TK system can be done either using the internal S0 bus or USB.

Using these buttons you can listen to a tagged message linked to a .wav file on the PC speaker.



This line displays the available AIS system storage in seconds.

AIS Module

Transferring message variants and on-hold music

Music on Hold is automatically integrated into your TK system when you install the AIS module. The Music on Hold can be replaced at any time using audio files. This is how you do it.

Music on Hold (MoH)

Audio files allow you to create pleasant on-hold music to be played while a caller is on hold or is transferred to another extension.

Changing Music on Hold

Click on the Music on Hold button. The following appears in the input screen:

Index	File name	Comment
Music on hold1	Name	Comment

Highlight the line Music on hold1.

You can listen to available .wav files using the "Listen to .wav file."

The "Select .wav file" button allows you to select .wav files stored on your PC and transfer them to a tagged location using the "Open" function.

By clicking on the "Change comment" button, you can enter a comment or a title; the change is applied using the ENTER key.

When you change a comment, you must first highlight the field (line) you wish to change.

Please note:

Music on Hold must be activated in the TK Suite Set configuration program in the pane "Additional settings" under "Music on Hold."

Please follow current copyright laws when using music selections.

AIS Module

Messages Greeting

The greeting announcement is played to external callers before they are connected to one of the groups you have defined. For example, the greeting might be used for marketing purposes. As soon as an external call is put in a "Message prior to answering" queue, a seasonal message might be played, for example, "Winter is coming up. Time to think about snow tires."

You can also define whether calls for the group always hear the message, or only if all the group lines are busy. You may also specify whether the greeting is played in its entirety before the call is answered, or whether a notification is sent during the message. If group members are called according to your call distribution, a call can be picked up during the announcement.

Applying greeting messages

Clicked on the button "Greeting message." The following appears in the input screen:

Index	File name	Comment
Message 1	Name	Comment
Message 2	Name	Comment
.....to	:	:
Message 10	Name	Comment

Highlight Line 1, for example.

The "Listen to .wav file" button allows you to listen to the .wav file (if available).

The "Select .wav file" button allows you to select .wav files stored on your PC and transfer them to a tagged location using the "Open" function.

By double-clicking on a line (e.g., "Message 1") you are put into editing mode, allowing you to change the comment. "ENTER" applies this comment.

On-hold message

When an external caller has received the greeting and has been transferred to the "Message prior to answering Group," the subscribers are called according to their notification type. During this calling phase, you may specify whether the external caller receives an on-hold message (e.g., "Your call is being transferred") or hears a call-connected signal.

Applying an on-hold message:

Follow the same procedure as for "Applying greetings." Just click on the "On-hold message" button.

AIS Module

Door messages / door signals

To make it easier to identify calls from the door, you may use audio files to provide individual sounds (such as a door bell). These are output via the speaker (only AS 3x).

Please note:

The speaker must be assigned an internal audio number; this is set up in the TK Suite Set under "Additional Settings."

In the pane "Doors, Relays and Sensors," you can assign door signal distribution and register the speaker with its audio internal number.

Applying door messages / signals:

Follow the same procedure as for "Applying greetings." Just click on the "Door messages / signals" button.

Sensor announcement

Depending upon the basic setup of your telephone system, there are two contact inputs /sensor inputs which may be used to connect typical alarm sensors or motion detectors. You may store sensor announcements (e.g., Sensor entrance 1 has been activated); an activated sensor may, depending upon your settings initiate an internal or external call. When you accept the call, you will hear the sensor announcement.

Applying a sensor announcement:

Follow the same procedure as for "Applying greetings." Just click on the "Sensor announcement" button.

Wake-up Alarm message

Each telephone system subscriber may set an individual wake-up alarm time. At the specified time, the telephone rings and a pre-recorded message is played.

If you use the AIS Configurator, two sample alarm messages are provided as examples.

Alarm 1	- Announcement before the time	This is your wake-up call. It is xx o'clock.
Alarm 2	- Announcement after the time	Have a nice day

Between the messages for Alarm 1 and Alarm 2, the current time is announced. You may, however, provide your own announcements for Alarms 1 and 2. These messages are automatically used for a wake-up call.

Applying the Wake-up alarm announcement

Follow the same procedure as for "Applying greetings." Then just click on the "Wake-up alarm message 1 / Wake-up alarm message 2" button.

AIS Module

Time

As described above, the current time is automatically announced between Alarm message 1 and Alarm message 2.

If you create your own wake-up alarm message, the time is announced using the stored system voice.

If you would rather use a different voice, you may record the individual times using .wav files.

Applying the current time

Follow the same procedure as for "Applying greetings." Just click on the "Time" button.

Settings in TK Suite Configurator

A few additional settings in the TK Suite Set configuration must be adjusted to allow you to use the AIS module and .wav files in the AIS configuration. These are described below.

Music on Hold

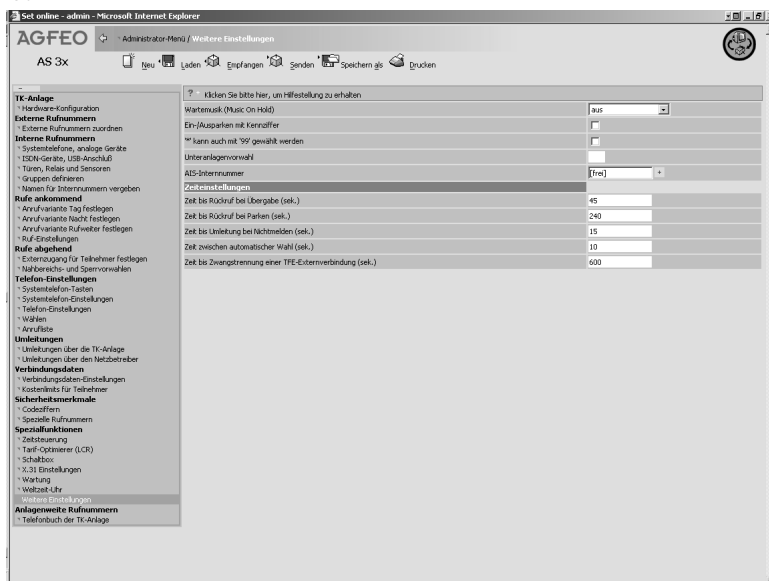
The following pane is on the page "Special functions - additional settings:" On-hold music (Music on Hold) with the setting options:

Off (MoH is turned off)

AIS (The AIS module MoH is used)

External source (MoH relies on an external source, such as a CD player)

Select the desired MoH type by first by clicking on the type, and then by clicking on the on the "Send" icon.



Greeting / on-hold message

Various settings can be adjusted on the configuration page “Internal calling numbers - define groups.”

The AIS module allows a message before answering to be played for up to two callers simultaneously. You can adjust settings for two group calling numbers

“Message prior to answering Group”

Open the configuration page in the TK Suite Set Configurator

“Internal calling number – define groups”

and set the group calling number with its subscribers, the call mode and notification type for group members.

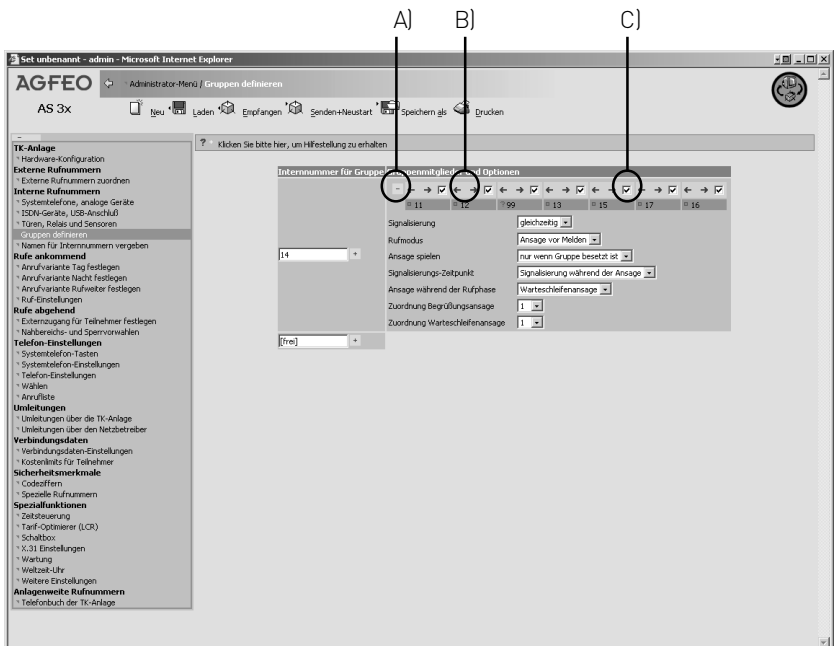
Once you have established a group calling number with group subscribers, the following symbols will appear above the members of the group:

A) By clicking on this button, you will see all internal subscribers who may be integrated into a group.

B) By clicking on this button you may rearrange the calling order of the selected subscribers.

This is important in the event that a member of the group deactivates from the group in order to work on something else. Once the subscriber has reactivated, the old position in the group is resumed.

C) By clicking on this button, selected subscribers may activate or deactivate themselves within the group.



Notification

In the notification pane you can define exactly the notification types. The following notification types are available:

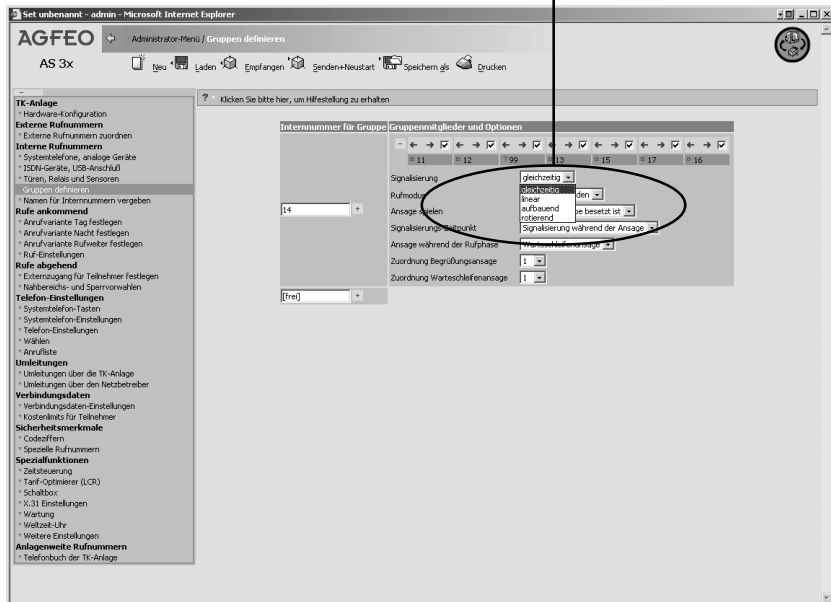
simultaneous - all subscribers ring at the same time

linear - all subscribers ring in sequence, the call being transferred to the next subscriber after about 15 seconds. If the call arrives at the last subscriber without being answered, the call remains with that subscriber.

incremental - all subscribers are added, one after the other. The addition occurs in the specified sequence at approximately 15 second intervals.

rotating - all subscribers ring individually in sequence, the call being transferred to the next subscriber after about 15 seconds. If the call arrives at the last subscriber without being answered, the call is routed again to the first subscriber.

Notification



AIS Module

Call mode

In the call mode you can set up a “Message prior to answering” for a defined group calling number. The effect of this is that calls to this group are immediately routed to the AIS module. As soon as you have selected “Message prior to answering,” additional configuration options appear for this function.

Play message

under “Play message” you can specify whether an external call to a defined group number is

- “Always” answered automatically with the greeting or
- “Only when the group is busy.”

Select the desired type of message by clicking.

Message and notification sequence

When a caller reaches a defined group number set for “Message prior to answering” call mode, the caller receives the greeting.

Call notification can take place:

- after the message –

The caller hears the entire greeting and the call is routed to the group subscribers at the end of the announcement, or

- during the message –

The caller hears the greeting and the group subscribers are notified according to the call distribution; the call may be answered during the message. Select the desired type of notification type by clicking on it.

Announcement during the call phase

Once an external caller has heard the message, and the the subscriber group has been notified, you can specify whether the caller receives a

- connected signal

- or a second message with an on-hold message.

This on-hold message may be spoken text with a musical background (“Please wait, your call is being transferred”). Select the desired type of message by clicking on it.

Assignment of greetings

There are several greeting messages stored in the AIS Configurator under “Messages.” These stored announcements have index numbers (1-10) as well as a comment for easy identification. Select the desired message by clicking on it.

AIS Module

Assigning on-hold message

Under "Messages," various on hold messages are stored in the AIS Configurator. These stored announcements have index numbers (1-10) as well as a comment for easy identification. Select the desired message by clicking on it.

Door intercom messages

Depending on the basic configuration of your telephone system, there are 2 contact / sensor inputs on the configuration page "Doors, Relays and Sensors."

The following settings can be configured:

Operation type:

You can set the operation type "Door" by clicking on it.

Once you have set this operation type, various configuration options for the door are provided in the Option box.

Internal calling number for door:

Specify a free internal calling number for the door.

Call variation 1:

Specify the internal subscribers to be called when the door bell is operated and whether Call variation 1 (day) is active.

Call variation 2:

Specify the internal subscriber to be called when the door bell is operated and whether Call variation 2 (night) is active.

Signal pattern:

Set a special signal pattern for the door. In this way you can recognize immediately that someone is ringing at the door.

Door / sensor message:

There are several greeting messages stored in the AIS Configurator under "Messages." These are listed by index number. Select the desired message ("1" corresponds to the door / sensor message with the index number 1 in the AIS Configurator) by clicking on it.

Night is active:

By clicking on this button you can turn Call variant 2 (night) on / off.

When you have activated night switching, your visitor, after ringing the door bell, will hear the door message on the door intercom.

All the telephones part of the door bell distribution will ring, and you will be connected to the door intercom when you pick up the receiver.

External call:

Under the external call option, you can enter an external number to be called when the someone rings the door bell (the so-called "Apothecary routing").

External call:

The external call can be activated / deactivated by clicking on the button.

Sensor messages

On the “Doors, Relays and Sensors” there are 2 sensor inputs available, depending upon the basic configuration of your telephone system.
The settings are adjusted in the following panes.

Configuration:

By clicking on this you can configure the sensor operation.

Once you have selected “sensor” you are offered settings for the operation of the sensor.

Active:

By clicking on this button the sensor is activated / deactivated.

Sensor internal calling number:

This specifies the free internal calling number for the sensor.

Call variant 1:

Here you enter the internal number to be called in the event the sensor is triggered and Call variant 1 (day) is active.

Call variant 2:

Here you enter the internal number to be called in the event the sensor is triggered and Call variant 2 (night) is active.

Ring pattern:

The call triggered by a sensor should have a special ring pattern. In this way you can tell by the ring pattern that the sensor was been activated.

Selecting sensor message text:

There are also sensor messages stored in the AIS Configurator. These are listed by index number. Select the desired message by clicking on it.

Night is active:

By clicking on this button you can turn Call variant 2 (night) on / off.

External call:

Under the external call option, you can enter an external number to be called when the sensor is triggered.

The external calling number is dialed in addition to the selected internal subscriber and has priority over existing external calls.

External call active:

The external call can be activated / deactivated by clicking on the button.

AIS Module

Sensor settings

Times for sensor messages can be defined in the sensor settings pane.
The following times can be specified.

Time to initiation (0-9 min):

Interval between initial sensor signal (window contact opened) until there is notification in the system.

Duration of notification (1-30 min):

This is how long the alarm lasts.

Time to external call (0-9 min):

This is the interval between the initiation of the internal alarm and the triggering of an external call.

Time to activation (0-9 min):

The time frame between activation of the sensor via the telephone until the alarm has been set.

Lock-out time (0-30 min):

This is the time frame until a new sensor signal is processed.

On the configuration page "Security features - codes"

you can define the alarm code. Your defined alarm code will be required if the sensor alarm is activated / deactivated on the telephone.

You can activate /deactivate the sensor using the TK Suite Set configuration program, via telephone or by means of time controls.

You may also adjust all settings easily using the system telephone.

Deactivating the sensor once this has been triggered

Once a sensor has been triggered, the subscribers are called according to the call distribution (entered under "Doors, Relays and Sensors").

The telephones ring according to a specially defined pattern. If you have set up an alarm code and pick up the receiver on a telephone that has been called, you will hear the sensor message (or a special dial tone if you have not installed an AIS module in your system); other subscribers will continue to be called until the sensor alarm has been switched off. By entering the alarm code / PIN (during the call), you can shut off the sensor alarm.

If you have not set up an alarm code, the sensor is deactivated when the call is terminated.

Once the specified "lock-out" time (time until a new sensor signal can be processed) has expired, the sensor can be re-activated.

AIS Module

Sensor settings using the system telephone Sensor activation

Programming:

Using the arrow keys you can select which sensor or sensors are to be activated.

With the arrow key select which sensor(s) should be switched on / off, and apply this setting with OK.

Select "Activation"

After activation, you will receive the message "Sensor nn initialized 05 min until the sensor is active." The telephone transmits an intermittent signal until the sensor is activated. An "S" blinks in the display of all system telephones. The time interval will depend upon the "Time to activation" setting.

ST 20/ 25

ST 30

DECT 30

set 0 1

→ 0 1

ALT ↔ 0 1

next enter

← OK

< > OK

1

1

1

next enter

← OK

< > OK

Sensor notification

Night setting:

Programming:

Sensor notification night setting activate / deactivate

The configured sensors are displayed
Select a sensor and confirm with OK.

Select "Night Setting"

Select whether the night setting should be activated / deactivated and confirm with OK

External routing:

Programming:

Activating / deactivating external routing of the sensor call for each sensor.

The configured sensors are displayed
Select a sensor and confirm with OK.

Select "External Routing"

Select whether the setting for external routing should be activated / deactivated and confirm with OK

set 0 1

set 0 1

ALT ↔ 0 1

next enter

enter

< > OK

2

2

2

next enter

enter

< > OK

set 0 1

set 0 1

ALT ↔ 0 1

next enter

enter

< > OK

3

3

3

next enter

enter

< > OK

AIS Module

Alarm message for sensor settings

You can also record a message for the sensors using a system telephone.

Programming

Select the desired sensor and confirm with OK. Pick up the receiver and you will hear a stored message.

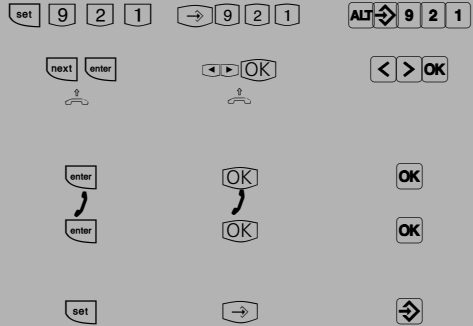
Using the OK key you can record a new message; speak your message; end recording with OK. Repeat this procedure to check a recorded message.

Then either select another sensor or end the menu with "Set."

ST 20/ 25

ST 30

DECT 30



AIS Module

Sensor settings for times

You may specify various times in the "Sensor" pane, just as under the sensor settings in TK Suite Set.

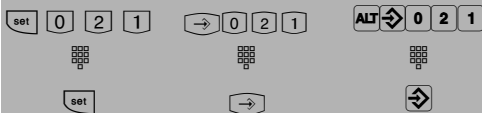
Time to active:

Time from activating to arming the sensor.

Programming

Using the numeric keypad, enter the desired single digit time, from 0 to 9 minutes

Finish programming



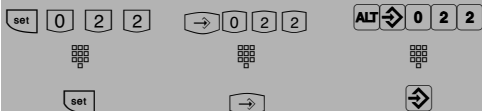
Time to triggering:

Time between detection and notification in system

Programming

Using the numeric keypad, enter the desired single digit time, from 0 to 9 minutes

Finish programming



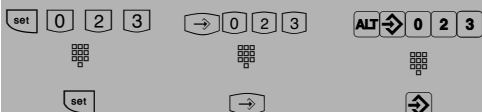
Time to external call:

Time from internal notification until an external call is made

Programming

Using the numeric keypad, enter the desired single digit time, from 0 to 9 minutes

Finish programming



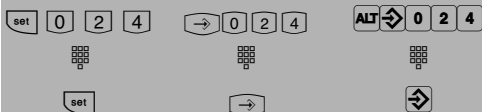
Alarm duration:

Length of time alarm lasts

Programming

Using the numeric keypad, enter the desired double-digit, from 1 to 30 minutes

Finish programming



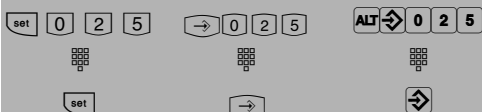
Lock-out time:

Time before another sensor signal can be processed

Programming

Using the numeric keypad, enter the desired double-digit, from 0 to 30 minutes

Finish programming



AIS Module

Sensor settings – sensor names

You may assign names to the sensors

Programming

Select the desired sensor and confirm with OK.

Select "Sensor Name".

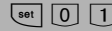
Using the numeric keypad, enter the name you wish and apply with OK.

Either assign additional names to the sensors or end the menu with "Set."

ST 20/ 25

ST 30

DECT 30



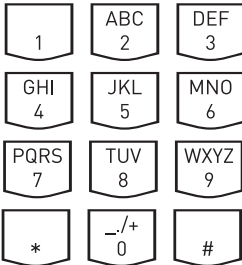
4

4

4



Notes



Entering the name with the number keys:


Press numbers 1 to 0 repeatedly,

Example: 2 = A
22 = B
222 = C
2222 = 2

press "next" to go to the following entry or return to the previous entry after time, characters can be overwritten

delete blinking character

delete entire entry

Using  you can switch between upper and lowercase letters. The display shows either ABC or abc.



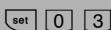
AIS Module

Sensor test

Programming

The sensor test is active for 15 minutes; the "Stop" key ends the test. During these 15 minutes you have the option of testing the sensor functions. During a sensor test, the triggered sensor calls only the telephone that initiated the test.

ST 20/ 25



ST 30



DECT 30



Sensor activation using the function key

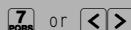
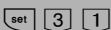
You have the option of setting up a freely programmable function key dedicated to sensors.

Setting up the sensor function key Programming

Select the function key to be modified "S" for sensor key or page to the desired function

Confirm selection

Using the numeric keypad, enter the internal calling number assigned to the sensor for which you are setting up the key and confirm with OK. The key is configured.



Sensor activation / deactivation using the function key

Press the "sensor" key

If you have set up an alarm code, the system telephone display will ask you to enter an alarm code.

You have already defined this alarm code in TK Suite Set under "Security features codes – alarm code." Enter the alarm code using the keypad.

Select whether the sensor(s) should be activated / deactivated and confirm with OK. The LED on system telephones equipped with LED's will blink when this function is activated.

AIS Module

Activating / deactivating the sensor using the telephone.



Pick up handset

* 4 7 4

Code for sensor activation



Enter internal calling number for the sensor



0 = off
1 = on



Replace handset

Please listen to resulting messages such as "Please enter the PIN code," or "The PIN code is incorrect."

When asked for the PIN code, enter the alarm code.

If you have incorrectly entered the PIN code, you must repeat the procedure in order to activate / deactivate the sensor.

Querying the sensor using the telephone



Pick up handset

* 4 7 5

Query code for sensor status



Enter internal calling number for the sensor
You will receive a message (e.g., "Sensor input 1 has been activated") with the current status of the selected sensor.

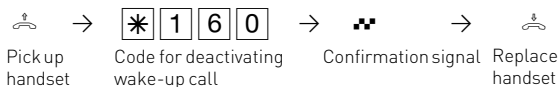


Replace handset

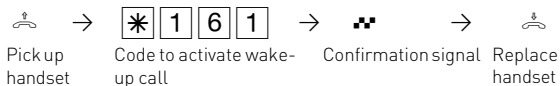
Activating and deactivating the sensor, as well as querying can also be performed using the external switchbox. Refer to the TK system operating instructions for the exact use of the switchbox.

AIS Module

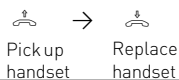
Deactivating the wake-up alarm



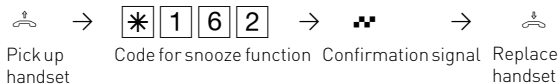
Activating the wake-up alarm



Stop wake-up call

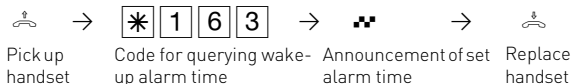


Snooze function

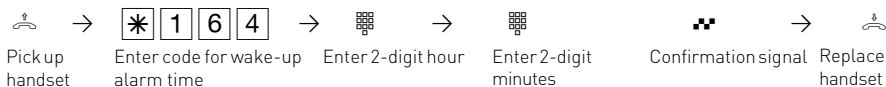


After initiating the “snooze” function, the wake-up alarm will be repeated every 10 minutes for an hour, unless you deactivate it.

Querying wake-up alarm time



Entering wake-up alarm time



Delete wake-up alarm time



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