

TENOVIS

We give you the edge.



***Business handset MM588,
Industrial handsets MM780,
MM780 Ex T4***

► ***Connected to Integral 33/55***

Operating Instructions

Important information

Caution!

The **MM588** and **MM780** handsets are not explosion-proof and may be used in Zone 2 hazardous areas only (MM780 also in Zone 22) in compliance with the specifications of the manufacturer's declaration.

Protect the **MM588** from humidity. Do not, for example, leave it outdoors when it is raining. This could damage the handset.

■ The handsets **MM780 / MM780 Ex T4** are impervious to dust and water. The **MM780 Ex T4** is explosion-proof. It may be used in Zone 1 hazardous areas.

Follow the safety instructions on Page 91 for operation of the units in hazardous areas!

Protect against interference

Other electronic units are usually protected from the high-frequency irradiation. However, a device of this kind which is insufficiently protected may lead to malfunctions.

Never unscrew the handset housing!

The housing could be damaged as a result. It does not contain any components that can be repaired by yourself.

Never throw batteries into a fire!

Do not throw the battery into a fire, it might explode.

To avoid injury and fire damage, the contacts of the battery must not be allowed to come into contact with conductive objects or to be short-circuited.

Operating the battery

At first, charge the battery to its full capacity. In the first week of operation, always place the handset back in the charger after use. New battery cells will generally only reach their full capacity after several days of standard operation.

Batteries must be used in the appropriate manner. Tenovis is not liable for damage which occurs due to inappropriate handling of the battery.

Important information

When the batteries are used up - information for consumer

Do not throw used batteries into the dustbin! Take them to a municipal collection centre or to your dealer where they can be disposed of in an environmentally friendly manner.

Restricted use of some functions

These instructions describe all the functions of your telephone that can be used with the latest system software. Some functions will not work with older software! More detailed information can be obtained from Tenovis Service.

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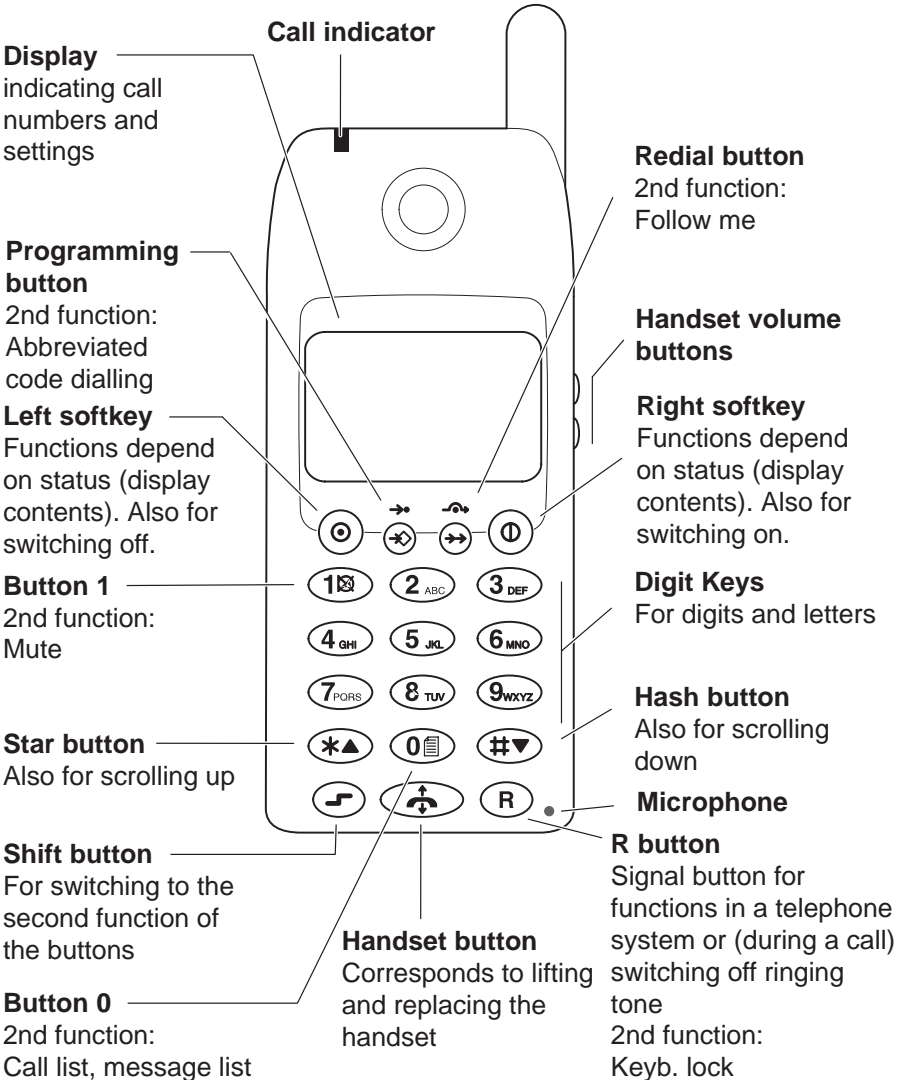
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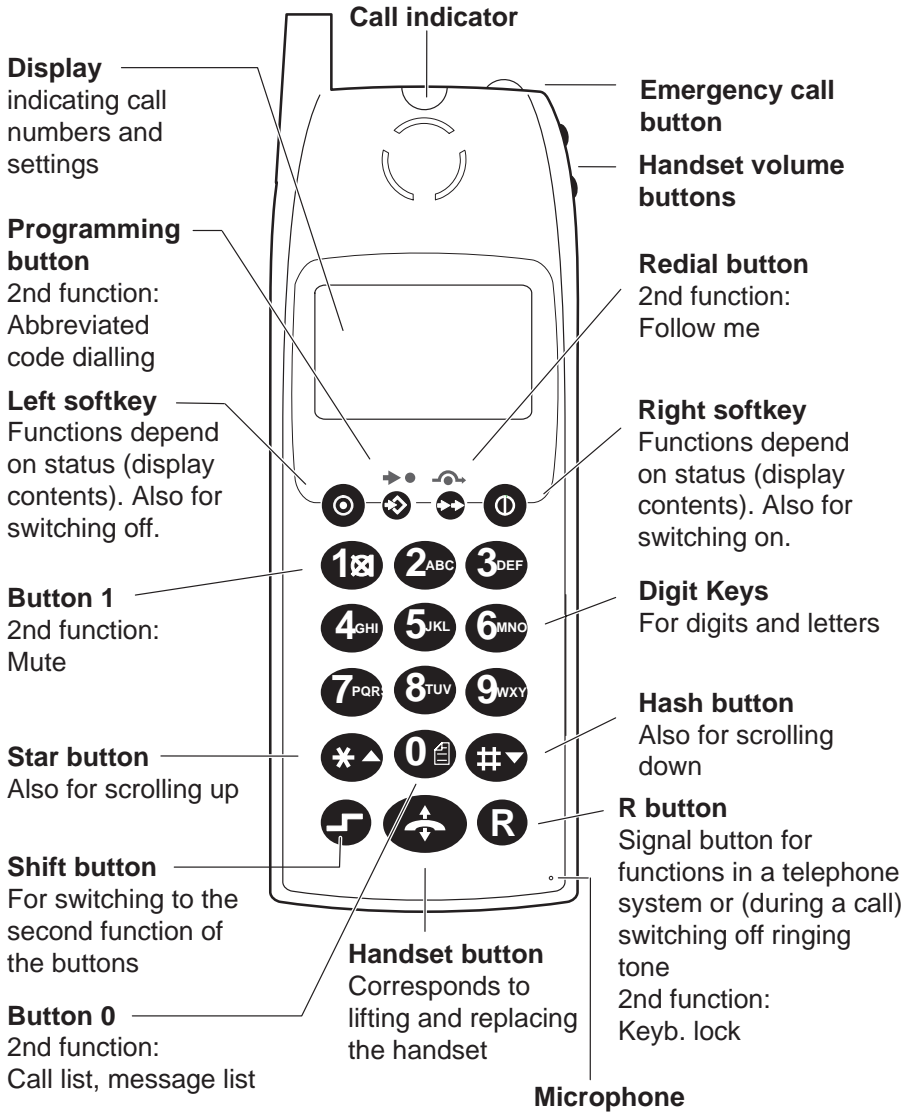
Overview

MM588



Overview

MM780 / MM780 Ex T4



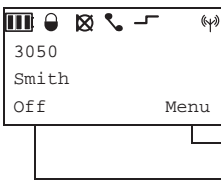
Display

Various texts and symbols in the display assist you in operating the handset.

The texts and symbols are provided in the display to guide you through the menus and inform you about the status of your handset.

The functions of the right and left softkeys change according to the current status. The respective functions are shown in the display directly above the softkeys.

The lines in the display



Symbol line indicating the status of the telephone.

Two text lines e.g. for the name and call number.

Function of the right softkey e.g. Menu.

Function of the left softkey, e.g. Off.

Symbol denotations

Battery full, battery nearly full, battery nearly empty, battery empty,

(battery symbol flashing) capacity for less than five minutes!

Mute: The microphone is off. Your call partner cannot hear you.

Lock: The handset is locked.

Handset: The handset has a telephone connection.

Shift: The shift button is pressed.

(Antenna without radio waves) **Within range of the system:** Your handset is within range of a base station. You may make a call.

(Antenna with radio waves) **Connection to system:** Your handset has a radio link.

Display

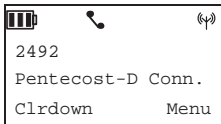
The display of your handset can accommodate a maximum of 16 characters in each line.

The layout of the display contents depends on the status of your handset.



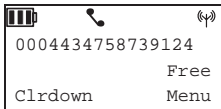
In basic status

The display shows the number and first 16 letters of your name.



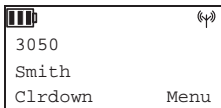
Name display

If you are calling an internal subscriber, the display shows the subscriber's internal call number, and the name, when available.



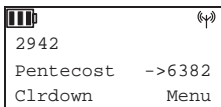
When making a call

The display shows the number (the last 16 digits) and possibly the name.



When you are called

The display shows the number (the first 16 digits) and possibly the name.



When a call is diverted to you

The display shows the name, number and call diversion.

The display shows the current connection status. Meaning:

CCBS	Callback entered	BUSY	Busy
LIST	Unread entry in the call list	CONF	Conference
FM	Follow-me is switched on	CONN	Connection
mail	Message available	END	End of connection
MAIL	Unread text message	FREE	The desired number is free
MW	Voice mail message waiting	NR	The desired number is not available
		Dial	Dialing procedure

Commissioning

When you receive your handset, it is registered in the system and ready for operation. All you need to do is connect the supplied charger.

If you wish to register your handset in another system, refer to page 82.

Placement of the charger

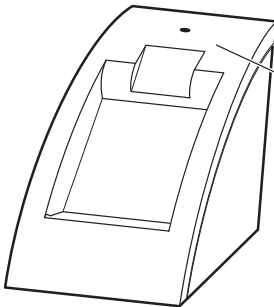
Place the charger on a solid, even surface, e.g. a table. Choose a location that is protected from direct sunlight and dampness. Please also observe the information on P. 90.

Insert the mains plug into a socket. The charger is ready for operation.

Charging the handset

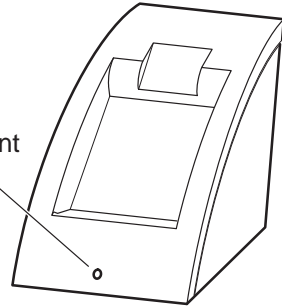
Simply place the handset into the charger. You will hear an acknowledgement tone. The display and keypad lights will switch on briefly. The battery symbol in the symbol line will start to move. The battery is being charged.

When the batteries are being charged, they will become slightly warm. This is perfectly normal.



UM588 Charger
for **MM588**

Charging indicator
light for replacement
battery



UM780 Charger for
MM780 / MM780 Ex T4

Commissioning

Removing the battery

Place the handset on a table with the display facing down.

MM588: Press in the clip.

Pull up the clip on the battery.

MM780: Press in the side clips.

Lift off the battery.

MM780 Ex T4: Use the lifting tool (1).

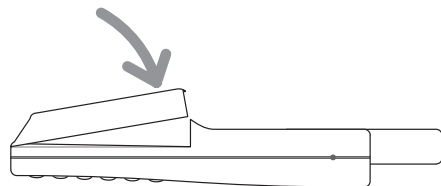
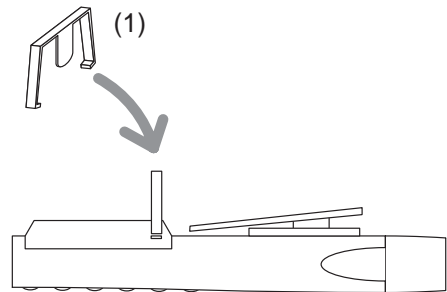
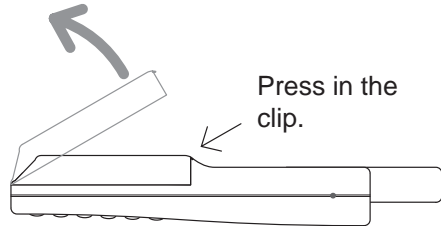
Position the lifting tool over the battery and insert the clips into the apertures.

Press the sides of the lifting tool together. Lift out the battery.

Warning: Do not remove or charge batteries in **hazardous** areas!

Fitting the replacement battery

Place the replacement battery onto its rear edge. Tilt it onto the handset. Press it firmly in the middle. Make sure that the battery clicks into place.



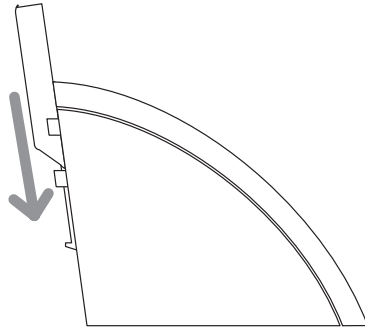
Do not lose the lifting tool for the battery used in the MM780 Ex T4. Otherwise, you will no longer be able to change the battery.

New batteries usually reach full capacity after several days of normal use.

Commissioning

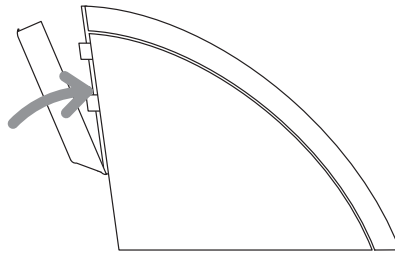
Charging a replacement battery, MM588

Place a replacement battery in the charging holder (rear side of the charger). Slide the battery through the guide notches parallel to the rear panel. Make sure that the battery clicks into place. The charging indicator light switches on.



Charging a replacement battery, MM780 / MM780 Ex T4

Place the underside of the replacement battery on the charger holder. Press the battery against the holder. Make sure that the battery clicks into place. The charging indicator light switches on.



The charging process is ended when the replacement battery is full. The charging indicator light will then switch off.

If a handset is placed in the charger, the handset will be charged.

If **MM780 / MM780 Ex T4** is being charged, the replacement battery is also charged.

If **MM588** is being charged, the replacement battery is not charged. The charging indicator light remains switched off.

The battery symbol in the display will only provide a reliable indication of the charging status once the handset has been completely charged for the first time!

Caution!

Do not throw the battery into a fire, it might explode.

To avoid injury and fire damage, do not allow the contacts of the battery to come into contact with conductive objects or to be short-circuited.

Do not leave the battery in direct sunlight. Proper care of the battery is rewarded with a long service life.

Commissioning

Vibra battery for MM588

A Vibra battery is available for the handset. The Vibra battery serves to vibrate the handset when a call is received. How to activate the vibration is explained on Page 59.

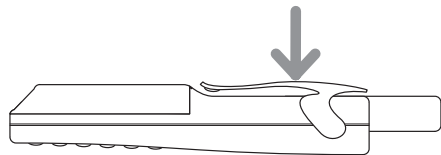
The vibrating device is permanently installed in the industrial handsets MM780 / MM780 Ex T4.

Carrying clip for MM588

The clip is designed for carrying your handset in an office environment. It will not stay attached to wide leather belts. To carry the handset outdoors, please use the carrying case which can be obtained as an accessory.

Attaching the carrying clip to the MM588

Place the handset on a table with the display facing down. Attach the clip to the handset from above. Make sure that the clamping lugs click into place.



Releasing the carrying clip from the MM588

To release the clip, bend the lateral clamps slightly apart.

When inserting a Vibra battery into the handset, it may occur that the battery vibrates briefly. This is perfectly normal.

Commissioning

Carrying strap for MM780 / MM780 Ex T4

To attach the carrying strap, pull the thin attachment strap through the opening at the top of the MM780 handset behind the Emergency call button. Then pull the carrying strap through the attachment strap.

Carrying clip for MM780

The **MM780** Industrial handset features a sturdy clip which can be attached to belts or overall pockets. The clip can be unscrewed.

Carrying clip for MM780 Ex T4

The clip **cannot** be removed from the **MM780 Ex T4**, otherwise the explosion-proof certification will be invalidated!

Commissioning

HSG30-DECT Combined handset / headset

The HSG30-DECT combined handset / headset is available for the handset. The connector socket is located on the base of the handset.

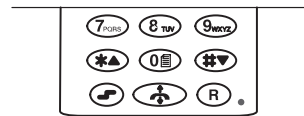
The combined handset / headset enables “handsfree” telephoning. The microphone and loudspeaker in the handset will then be **switched off**.

The handset rings when a call arrives.

All other functions are unaffected. Use the volume buttons (see P. 62) particularly for the **handset volume**.

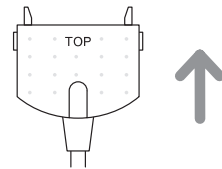
Connecting the combined handset / headset

Place the handset on a table with the display facing up.



MM780: Remove the rubber dust cap from the opening in the base. **Warning**, imperviousness to dust and water has now been reduced!

Hold the connector of the handset / headset so that you can read the embossed text “TOP”.

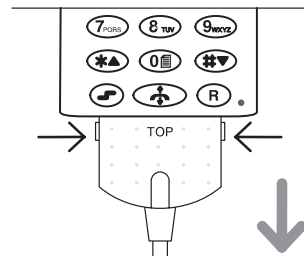


Insert the connector into the socket on the bottom of the handset. Make sure that the clip clicks into place.

Disconnecting the handset / headset

Press in the lateral locking lugs.

Remove the connector of the handset / headset from the handset.



The MM780 Ex T4 must not be operated with a headset. The rubber dust cap is glued in and must **not** be removed.

Read the operating instructions for the HSG30 combined headset / handset before using it.

Basic rules of operation

The operation of your telephone includes several operating steps which are often repeated. Please familiarize yourself with these operating steps.

Left and right softkey

The function of the softkeys changes according to the situation. The respective function always appears in the display above the softkey, e.g. **Menu** or **off**.



The right softkey is used for switching on, calling up menus or confirming.



The left softkey is used for ending a menu option or cancelling.



If you press the key for a **long** period when in any of the menus, the handset will be returned to its basic status.

Star and hash buttons



The star and hash (#) buttons are used for scrolling in lists and menus.

Switching on the telephone



The telephone is switched off. Press the right softkey for a **long** period.

Switching off the telephone






The telephone is in basic status. Press the left softkey for a **long** period.

If you place the switched off handset into the charger, the handset will be switched on after a while and the charging process will be indicated.


Basic rules of operation

Selecting a menu

Some functions and settings of your telephone can be obtained via the display contents (menu). The menu is set out in such a way that most of the menu options lead to submenus.

-  Call up the menu using the right softkey.
-  Use the star and hash (#) buttons to mark the desired menu option, e.g. `System`.
-  Select the menu option using the right softkey.

Menu level back

-  The left softkey enables you to move to the next menu level up or leave the menu.

Submenus

Submenus are operated in exactly the same way as the main menu.

Cancel

-  Press the left softkey for a **long** period in order to reach basic status.




Basic rules of operation



Entering characters for telephone directory entries



The digit keys may also be used to enter letters and characters, e.g. for names in your personal telephone directory. The letters are printed on the digit keys. Your telephone will automatically switch to the input of letters and characters when this is required. The table of characters on page 98 indicates which characters you may enter.

Example: Entering the name "JOHN":



 Press the JKL button once. **J** appears in the display. Wait briefly.

   Press the MNO button three times. **JO** appears in the display. Wait briefly.


  Press the GHI button twice. **JOH** appears in the display. Wait briefly.

  Press the MNO button twice. **JOHN** appears in the display. Wait briefly.

Ending input

  Press the right softkey twice. The characters are accepted.

Correcting characters

 Press the left softkey.

Deleting the line

 Press the left softkey for a **long** period.

To switch between upper and lower case letters: Press the key for a **long** period.

The character table on p. 98 shows the respective letter in lower case on the 2nd line.





Making and receiving calls


You may use your handset to telephone in the usual manner.


Telephoning within the telephone system (internally): Dial the internal call number required.

External Calls: Dial the external line code (usually zero), followed by the call number of your call partner.


Calls, block dialling

    Dial the desired call number, e.g. 1276

 Correct any typing mistakes if necessary.

 Lift the handset.

Cancelling block dialling

 Press the R button.

Making a call, conventional dialling


 Lift the handset.

    Dial the call number, e.g. 1276.

Ending a call

 Replace the handset.


Redialling

 Press the redial button.

 Lift the handset.

Making and receiving calls


Accepting a call

 Your handset rings.



Lift the handset.


Switching off the ringing tone

 Your handset rings.



Tone off. The call is still waiting.

Rejecting a call

 Your handset rings.



Press the left softkey. The caller hears the busy tone.

The number of the caller appears in the display. If the call is internal, the name will also be displayed.

Diverted call: If someone dials the number 5432 and reaches you via a call diversion, the following will also appear in the display: ->5432

If when telephoning you arrive at the boundary of the radio range, you will hear the range warning tone.

The message "Line occupied" tells you that no line is free. Try again in a few minutes.

Callback if busy

If the called internal subscriber is busy, you may activate a callback. As soon as the subscriber is free, your telephone rings and you can allow yourself to be connected to the subscriber. This function must be enabled for your telephone within the system. Your system administrator will inform you of the required code.

Activating a callback



The subscriber is busy.



Enter the code for callback, e.g. star key, 2. You will hear an acknowledgement tone.



Replace the handset. **CCBS** appears in the display.

When the subscriber becomes free



Your telephone will ring when the desired subscriber becomes free.



Lift the handset. The connection is made.

You may store up to three callbacks.

You cannot delete individual callbacks, only all of them at the same time.

If you attempt to delete a callback when no callbacks are entered, you will hear a rejection tone.


You may cancel using the left softkey.


From handset software version 9.8x on, you can store the code for callback in the local telephone directory (P. 37)!

Information on P. 86 will help you determine which version of the software you have.

Callback if busy

Deactivating all callbacks

 Press the programming button.




  Enter the code #2. `delete?` appears in the display.





 Confirm.


Double call


Double call means: When you are called, both your handset and a second telephone will ring. You may choose which of the **two** sets you wish to use. You will need codes in order to set up the double call feature. These codes can be obtained from your system administrator.

Setting up a second telephone for a double call

   Dial the code for the double call destination, e.g. star key, 33.




    Dial the number for the second set, e.g. 7654.


 End the input using the # key.

 Lift the handset. You will hear an acknowledgement tone.

 Replace the handset.

Switching on double call

   Enter the code for double call ON, e.g. star key, 34.

 Lift the handset. You will hear an acknowledgement tone.

 Replace the handset.

The double call feature must have been enabled.

If your handset is outside the range of the system or switched off, the other telephone only will ring. The caller hears the ringback signal.


If you are telephoning on your handset, the caller may, depending on the setting in the telephone system, hear either the ringback or busy signal. Ask your system administrator for more details.

Your handset may also be the destination of a double call, e.g. from the telephone on your desk.

Double call

Switching off double call

   Enter the code for double call OFF, e.g. #34.

 Lift the handset. You will hear an acknowledgement tone.

 Replace the handset.

Consultation call and call forwarding

During a telephone conversation, you may go into consultation and speak to another call partner. Your initial call partner is left waiting. The same applies when your call partner also goes into consultation. It is also possible to transfer the caller.

Activating consultation



You are speaking on the telephone.

R Activate consultation. `Please dial` appears in the display. Your call partner cannot hear you.

7 PCPB **6** MNO **5** JKL **4** GHI Enter the desired number, e.g. 7654.

The number appears in the display: `7654` The connection is made. Your initial call partner is left waiting.

Switching to the other call partner

R Switch over using the R button.

Consultation call and call forwarding

Disconnecting the current call partner



Disconnect using the left softkey.

Forwarding a caller



You are speaking on the telephone.



Activate consultation. `Please dial` appears in the display.



Enter the desired number, e.g. 7654.



Replace the handset.

You may connect the caller without having to wait until the third subscriber answers.

You may still connect the caller if the third subscriber is busy.

Switching between lines (call partners)

During a conversation, you may dial a second call number (internal or external) and subsequently switch between the two call partners. The waiting call partner cannot hear the other conversation. The display always indicates which call partner you are connected to at present.

Starting a second call



You are speaking on the telephone.

R Activate consultation.

7 PQRST **6** MNO **5** JKL **4** GHI Enter the desired number, e.g. 7654. The number **7654** appears in the display. Your initial call partner is left waiting.

Switching

R The R button can be used to switch from the call partner just connected to the waiting call partner, and vice versa.

Disconnecting the current call partner

⊙ Disconnect. You are connected to the remaining call partner.

Ending switching between lines

↕ Replace the handset. Your line is free again. The other two call partners are connected to each other.

Conference

You may hold conversation with two call partners at the same time. Each subscriber can speak to the other two subscribers. To do this, the function must be enabled for your telephone within the system. Your system administrator will inform you of the required code.

Activating a conference



You are speaking on the telephone.

R Activate consultation.

4 GH **5** JKL **6** MNO **7** PQRS Enter the desired number, e.g. 4567. You are connected. Your initial call partner is left waiting.

R Switch call partners.

4 GH Enter the code for a conference, e.g. 4.

Konf. appears in the display.

You may now speak with both subscribers at the same time.

Ending a conference

R Go into consultation. You are now connected alternately to the two call partners and are able to switch between them (switching between lines).

From handset software version 9.8x on, you can store the R button with a code for conference calling in the local telephone directory (P. 37), e.g. buttons R, 4.

Information on P. 86 will help you determine which version of the software you have.

If the conference cannot be set up, you will hear a rejection tone.

Second call

Ending a call, answering a second call



You are speaking on the telephone. Your handset rings. The display shows an incoming call. A second call is waiting.



Replace the handset.



Your handset rings.



Lift the handset.

Interrupting a call, answering a second call



You are speaking on the telephone. Your handset rings. The display shows an incoming call. A second call is waiting.



Switch to the second call by pressing the programming button. Your initial call partner is left waiting.

Return to the first conversation



Switch by pressing the programming button.

The second call function is optional, see Page 64.

You will not receive a second call if you answer a call directly after dialling. Neither can you receive a second call if you already have one, if you are in conference mode, when in consultation, or when switching between lines.

Second call

Consultation in second call



You are answering a second call.

R

Activate consultation. `Please dial` appears in the display.

7 PQRB

6 MNO

5 JKL

4 GHI

Enter the desired number, e.g. 7654.

The number appears in the display: `7654` The connection is made.
The second call is left waiting.

Switching back to the second call

R

Switch over using the R button.

Disconnecting the current call partner



Disconnect using the left softkey.

Forwarding a second call



You are answering a second call.

R

Activate consultation. `Please dial` appears in the display.

7 PQRB

6 MNO

5 JKL

4 GHI

Enter the desired number, e.g. 7654.



Press the programming button.

The second caller is connected with the consultation subscriber.
You are now reconnected to the first subscriber.

You may connect the caller without having to wait until the third subscriber answers.

You may still connect the caller if the third subscriber is busy.

Abbreviated code dialling

You may assign important call numbers to the ten digit keys of your handset. This reduces the number of buttons that you must press in order to dial these call numbers.

Storing abbreviated dialling numbers



Press the programming button, shift key, and abbreviated dialling key.



Press the digit key on which you wish to store the call number, e.g. 0. The current setting appears in the display.



Enter the call number that you wish to assign to the digit key. The call number appears in the display: 4567

Next abbreviated dialling destination



Save and continue.

Continue with the next digit key: Use the procedure described above.

Ending storing mode



Save and end.

You may also enter an incomplete number, e.g. a company number without direct inward dialling.

You may cancel using the left softkey.

Abbreviated code dialling

Dialling abbreviated code numbers



Activate abbreviated dialling.



Enter the desired abbreviated dialling key, e.g. 3.

If the stored number is incomplete, enter the subsequent numbers now!



Lift the handset. You are connected.

Clearing an abbreviated number



Press the programming button, shift key, and abbreviated dialling key.



Press the destination key that you wish to clear, e.g. 0.

The call number appears in the display, e.g.: **4567**



Confirm. The call number is cleared.

You may cancel using the left softkey.

Code dialling

Within your telephone system, frequently used call numbers are stored centrally under specific code numbers. You may dial any of these numbers by simply entering the respective code number. The code for enabling code dialling in your telephone system is determined by the system administrator.

Selecting code dialling



Enter the code for code dialling, e.g. star key, 7. The code appears in the display: *7



Enter the desired code number, e.g. 12.

If the stored number is incomplete, enter the subsequent numbers now!



Lift the handset. The call number is dialled automatically.

You may cancel using the left softkey.

Local telephone directory


You may store up to 50 numbers. These numbers are not stored in the telephone system, but locally in your handset.


Searching for an entry using the arrow keys


  Menu `Local tel. dir.`

  Menu `Search`

 Confirm.

 Search for the entry, e.g. `Claes`

 Confirm the desired entry using the right softkey. The number appears in the display, e.g. `6087`. You may change it.




 Lift the handset.


Searching for an entry by entering the first letter


  Menu `Local tel. dir.`


  Menu `Search`

 Confirm.

   Enter the first letter, e.g. C. The first entry that starts with C appears in the display, e.g. `Carl`.

 Search for the entry, e.g. `Claes`

 Confirm the desired entry using the right softkey. The number appears in the display, e.g. `6087`. You may change it.

 Lift the handset.

Local telephone directory

Rapid search for an entry



Press the shift key.



Enter the first letter, e.g. C. The first entry that starts with C appears in the display, e.g. `Carl`



Search for the entry, e.g. `Claes`



Confirm the desired number. The number appears in the display, e.g. `6087`. You may change it.


















Lift the handset.

Local telephone directory

Call number consisting of a number of directory entries

The telephone directory can also be used to store parts of a call number, e.g. the code for a particular network provider. You can call up the network provider from the directory followed by the number.

-   Menu `Local tel. dir.`
-   Menu `Search`
-  Confirm.
-  Get the 1st entry, e.g. `Connection-King`
-  Confirm. The following appears in the display: e.g. `001034`
-   Menu `Local tel. dir.`
-   Menu `Search`
-  Confirm.
-  Get the 2nd entry, e.g. `Reichert`
-  Confirm. `001034242260`, for example, appears in the display.
-  Lift the handset.

Call numbers consisting of more than one directory entry are only possible with handset software versions subsequent to 9.8x. Information on P. 86 will help you determine which version of the software you have.

A time in which you can call up more than one number in the local telephone directory is limited.

Local telephone directory

New entry

① #▼ Menu `Local tel. dir.`

① #▼ Menu `New entry`

① Confirm.

7 PCRS 6 MNO 5 JKL 4 GHI Enter the number (up to 24 digits), e.g. 7654.

① Confirm.

2 ABC ... Enter the name (up to 16 characters). How to do this is explained on p. 18.

① Confirm. `Change entry?` appears in the display.

① Confirm.

From software version 9.8x on, you can also store key sequences for settings in the local telephone directory, for which the programming and redial keys are necessary (P. 60ff), and also the key sequences for conference (P. 28) and callback (P. 21).

Information on P. 86 will help you determine which version of the software you have.

Local telephone directory

Changing an entry

① #▼ Menu `Local tel. dir.`

① #▼ Menu `Edit`

① #▼ Confirm. Search for the entry, e.g. `Claes`

① Confirm.

7 POPS 6 MNO 5 JKL 4 GHI Change the number, e.g. 7654 (up to 24 digits).

① Confirm.

2 ABC ... Change the name (up to 16 characters). How to do this is explained on p. 18.

① Confirm. `entry?` appears in the display.

① Confirm.

Deleting an individual entry

① #▼ Menu `Local tel. dir.`

① #▼ Menu `Clear entry`

① #▼ Confirm. Search for the entry, e.g. `Claes`

① Confirm. `delete?` appears in the display.

① Confirm.

Local telephone directory

Deleting all entries

⓪ #▼ Menu `Local tel. dir.`

⓪ #▼ Menu `Clear all`

⓪ Confirm.

7 PCRB 6 MNO 5 JKL 4 GHI Enter the PIN, e.g. 7654 (refer to Page 68).

⓪ Confirm. Display: `Really delete all entries?`

⓪ Confirm.

Querying the free capacity

⓪ #▼ Menu `Local tel. dir.`

⓪ #▼ Menu `Capacity`



⓪ Confirm. `Positions: 50 incl. free: 45`, for example, appears in the display.

Call list



If a call does not reach you it is stored in the call list (the last 10 numbers). You may call back directly from the list.


Viewing the call list


LIST appears in the display if entries are present which have not been read.

  Press the shift key, followed by the 0 key.


Viewing the call list when more than one list is active

  Press the shift key, followed by the 0 key. **Mail list**, for example, appears in the display.

 Using the # button, scroll to the entry **Call list**

 Confirm using the Prog button.

Scrolling down the call list

  Use the star and # buttons to scroll.

In the display appears, e.g.: **3050 Smith 16.02 10:21+01**

If the number or the name is too long

If the number or the name is longer than 16 characters, it appears abbreviated in the display. You may have the entire number displayed (up to 32 characters).

 Press the redial button.

An entry contains number, name (where available), day and time of last call, a "+" for a new entry, as well as the number of attempts.

If an external call is present, without specification of number, in the display appears: Keine Rufnummer

Call list

Selecting from the call list

In the display appears, e.g.: 3050 Smith 16.02 10:21+01



Lift the handset.

As soon as you reach the subscriber the entry is automatically cleared.

Deleting an entry in the call list

In the display appears, e.g.: 3050 Smith 16.02 10:21+01



Press the shift key, followed by the left softkey.

... or ...



Press the 0 key.

Exiting the call list



Press the left softkey.

Message Waiting



If voice mail has been connected to your system, callers can leave messages as if on an answering machine. New voice mail messages are stored on a message-waiting list.

Incoming message-waiting message



 The handset emits a special information signal.


Viewing the message-waiting list

MW is displayed if messages are waiting.

  Press the shift key followed by the 0 key.



Viewing the message-waiting list if several lists are active

  Press the shift key followed by the 0 key. E.g. **Mail list** is displayed.

 Press the # key and scroll to the Query **MW Consult** entry

 Acknowledge by pressing the programming button.


Scrolling through the message-waiting list

  Scroll with the star key and # key.

E.g. **465 16.02 10:21 +** is displayed

Calling up a message

E.g. **465 16.02 10:21 +** is displayed

 Lift the handset.

You are connected to the voice mail.

An entry contains the number of the voice mail, date and time of the last call, a “+” for a new message.

Message Waiting

Deleting an entry from the message-waiting list

When you have listened to all voice mail messages, the entry in the message-waiting list is automatically deleted.

Leaving the message-waiting list





Press the softkey on the left.





See the appropriate operating instructions for listening to and deleting voice mail messages.


Call diversion


You may divert calls from your handset to another telephone. The other telephone may also comprise an external set, provided that this feature is enabled for your telephone. Your system administrator will inform you of the required code.

Activating a call diversion



  Enter the code for call diversion, e.g. star key, 4. The code appears in the display: `* 4`


    Enter the call number of the subscriber to whom you wish to divert a call, e.g. 3050. The call number appears in the display to the right of the code: `* 4 3 0 5 0`

 Lift the handset. You will hear an acknowledgement tone.

 Replace the handset. The following appears in the display:
`6 2 1 8 > 3 0 5 0`

Deactivating a call diversion

  Enter the code for call transfer OFF, e.g. #4. In the display appears: `# 4`

 Lift the handset. You will hear an acknowledgement tone.




 Replace the handset.






You will hear a special dial tone from your handset while the call diversion is activated.


Call diversion if handset busy

You can divert calls from your handset to another telephone if your handset is busy. The code digit indicates your system administrator.

Switching on call diversion if handset busy




  Input the code digit for call diversion if handset busy, e.g. star key followed by 6.  is displayed.


    Dial the call number of the subscriber to whom you want to divert, e.g. 3050. The call number is displayed after the code digit: 

 Lift the handset. You will hear an acknowledgement tone.

 Replace the handset.

Switching off call diversion if handset busy

  Select the code digit for call diversion if handset busy, e.g. #6.  is displayed.




 Lift the handset. You will hear an acknowledgement tone.





 Replace the handset.


Call diversion if handset not accessible

You can divert calls to another telephone if your handset is not accessible (switched off or outside the radio hop of a base station). The code digit indicates your system administrator.

Switching on call diversion if handset not accessible




   Input the code digit for call forwarding if handset not accessible, e.g. star key followed by 15. `*15` is displayed.


    Dial the call number of the subscriber to whom you want to forward a call, e.g. 3050. The call number is displayed after the code digit: `*53050`

 Lift the handset. You will hear an acknowledgement tone.

 Replace the handset.

Switching off call diversion if handset not accessible

   Select the code digit for call diversion if handset not accessible, e.g. #15. `#15` is displayed.

 Lift the handset. You will hear an acknowledgement tone.




 Replace the handset.





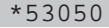
If your handset is not accessible and you have **not** set up call diversion, the caller receives the message: “The subscriber is temporarily unobtainable.”


Call forwarding

You may divert calls from your handset to another telephone, after a certain period. This is particularly practical if, for example, you are in a meeting. Your system administrator will inform you of the required code.

Switching on call forwarding after a certain period




  Enter the code for call forwarding, e.g. star key, 5. In the display appears: 


    Enter the call number of the subscriber to whom you wish to forward a call, e.g. 3050. The call number appears in the display to the right of the code: 

 Lift the handset. You will hear an acknowledgement tone.

 Replace the handset.

Switching off call forwarding after a certain period

  Enter the code for call transfer OFF, e.g. #5. In the display appears: 

 Lift the handset. You will hear an acknowledgement tone.

 Replace the handset.

Changing call diversion remotely

You can call from outside your telecommunications system and set up and change a call diversion for your handset or other telephones. This is possible from any telephone which features DTMF suffix dialling.

Dialling a subscriber whose call diversion is to be changed

0 **6 MNO** **9 WXYZ** **7 PQRS** **5 JKL** **0** **5 JKL** Dial the call number of your telecommunications system from an external telephone, e.g. 0697505.

8 TUV **9 WXYZ** Input the tie-line programmable access code of your system, e.g. 89. You will hear an acknowledgement dial tone.

6 MNO **0** **5 JKL** **5 JKL** Input the call number of the subscriber for whom you want to change the call diversion.

1 **2 ABC** **3 DEF** **4 GHI** Input the PIN number, e.g. 1234.

Now set up, change or deactivate call diversion:

Setting up or change call diversion

***▲** **6 MNO** **7 PQRS** Input code digits for “Activate follow me”, e.g. star key followed by 67.

0 **0** **8 TUV** **9 WXYZ** **7 PQRS** **5 JKL** **4 GHI** **3 DEF** Input the exchange code digit of the system and call number to which the calls are to be diverted, e.g. 00897543. You will hear an acknowledgement tone shortly afterwards.

Deactivating call diversion

#▼ **6 MNO** **7 PQRS** Input code digits for “Deactivate follow me”, e.g. hash key followed by 67.

“Changing call diversion remotely” must be released by the service. The service will also tell you the tie-line programmable access code and the PIN number.

In some cases you can set up call diversion from certain previously specified telephones only. The service will inform you of this.

Telephoning remotely via the system

You can call from outside your telecommunications system and e.g. make expensive international service calls via the system where the charges are then incurred. This is possible from any telephone which features DTMF suffix dialling.

0 **6** **9** **7** **5** **0** **5** Dial the call number of your telecommunications system from an external telephone, e.g. 0697505.

8 **9** Input the tie-line programmable access code of your system, e.g. 89. You will hear an acknowledgement dial tone.

1 **2** **3** **4** If required, input PIN number, e.g. 1234.

0 **0** **0** **4** **1** **9** **7** **5** **4** **3** Input the exchange code digit of the system and call number which you want to call via the telecommunications system, e.g. 0004197543. This call number is dialled immediately.

“Telephoning via the system” must be released by the service. The service will also tell you the tie-line programmable access code and whether a PIN number is required.

In some cases you can telephone via the system from certain previously specified telephones only. The service will inform you of this.

Follow me

You switch on the call diversion from another telephone to your handset. You must first enable this function at the other telephone. Your system administrator will inform you of the required code.

Enabling follow me at the other telephone



Lift the handset.

1**1****5**

Enter the code for enabling follow me, e.g. 115.

You will hear an acknowledgement tone.



Replace the handset.

Deactivating follow me at the other telephone



Lift the handset.

1**1****6**

Enter the code to deactivate follow me, e.g. 116.



Replace the handset.

Follow me

Entering the call number of the other telephone from your handset



Press the programming button, shift key, and follow me key. The current setting appears in the display, e.g. `Free`.



Specify the call number from which you wish to divert calls to your handset, e.g. 2078. The number appears in the display: `2078`



End the input.

Clearing the call number of the other telephone from your handset



Press the programming button, shift key, and follow me key. The current setting appears in the display, e.g. `2078`.



Finish clearing.

Performing the follow me function

Your handset is in basic status.



Activate. `Follow me active` appears briefly in the display. When inactive, display shows: `FOLLOW`

End follow me function

When inactive, display shows: `FOLLOW`




Deactivate. `Follow me inactive` appears briefly in the display.




The following appears in the display when performing the function: "Follow me action refused". This may mean that the function is not enabled at the other telephone, that it has been switched off at the other telephone, or that no destination has been entered.





Pick-up


You may answer the call on your telephone when another telephone rings. If you are assigned to a group, this also works in a random way for an arbitrary telephone within the group. You require a code to do this. These codes can be obtained from the system administrator.


General pick-up

 Another telephone rings, e.g. 3050.

   Enter the code, e.g. star, 23.

    Enter the number of the ringing telephone, e.g. 3050.


 Lift the handset.




 You are connected.


Pick-up


Group pick-up

Group pick-up, random

 Another telephone within your group rings.




   Enter the code, e.g. star, 24.


 Lift the handset.

 You are connected.


Group pick-up, direct

 Another telephone within your group rings, e.g. 3.

   Enter the code, e.g. star, 25.

 Enter the number of the group member, e.g. 3.

 Lift the handset.

 You are connected.




DTMF postdialling (digits as tone signals)





You may transmit digits during a call, thus enabling the remote control of an answering machine, for example. Your system administrator will inform you of the required code.

Transmitting digits




You are speaking on the telephone.

   Enter the code to activate DTMF postdialling, e.g. star key, 12.

    Enter the digits, e.g. 6789. Each digit is transmitted as a DTMF signal.

Automatic deactivation of DTMF postdialling

DTMF postdialling is deactivated automatically after a certain time.

 DTMF postdialling is automatically deactivated when the handset is replaced.

Manual deactivation of DTMF postdialling

   Enter the code, e.g. #12.

In the event that the code for deactivating contains a hash symbol, and you wish to transmit a hash (#) as a DTMF tone signal, you should then press the hash symbol twice ##.

From handset software version 9.8x on, you can store the code for DTMF postdialling in the local telephone directory.

Information on P. 86 will help you determine which version of the software you have.


Call charge display

You may view the charges incurred by the last call as well as the total incurred by all calls made since the charges were last cleared. You may also specify how the charges are to be represented in the display. To do this, you must activate the call charge receiver on the handset. The function must be enabled within the telephone system.

Activating the call charge receiver on the handset

   Press the programming button, 1, and redial button.


   Enter the code 906.

 Confirm. The handset now receives the charges.

Deactivating the call charge receiver

   Press the programming button, 1, and redial button.

   Enter the code 916.

 Confirm. The handset no longer receives the charges.

With the call charge receiver activated, the totalizing meter will still add up the charges even if the call charge display is switched off!

When the call charge receiver is deactivated, the totalizing meter will no longer add up the charges and remains at its current value.


Call charge display

Call charge display during an ongoing conversation

You may configure your handset to display the call charges when you are speaking on the telephone.


Displaying the total call charges for the current call

 **8** TUV **2** ABC **2** ABC Press the programming button. Enter the code 822.

 Confirm the setting.


Displaying the total call charges for all calls

 **8** TUV **2** ABC **3** DEF Press the programming button. Enter the code 823.

 Confirm the setting.


Displaying no call charges

 **8** TUV **2** ABC **4** GHI Press the programming button. Enter the code 824.

 Confirm the setting.

Displaying the call charges as units

 **8** TUV **2** ABC **0**  Press the programming button. Enter the code 820.

 Confirm the setting.

Displaying the call charges as an amount

 **8** TUV **2** ABC **1**  Press the programming button. Enter the code 821.


 Confirm the setting.

Call charge display


Displaying the call charges in basic status

 **8** TUV **2** ABC **5** JKL Press the programming button. Enter the code 825.


The display indicates the call charges incurred by the last call and the total charges incurred by all calls since the meter was last cleared.

 Return to basic status by pressing the left softkey.

Clearing the call charge meter

 **8** TUV **3** DEF Press the programming button. Enter the code 83.

5 JKL **6** MNO **7** PQRS **8** TUV Enter the additional PIN (refer to P. 68), e.g. 5678. This does not appear in the display.

 Confirm the setting.

To be able to clear the call charge meter, this function must be enabled for your telephone.

Muting the microphone


You may switch off the microphone on your handset whilst telephoning. The handset remains switched on. Your call partner cannot hear you, but you can hear him.

Muting the microphone



You are speaking on the telephone.



Switch off the microphone.  appears in the display.

Reactivating the microphone

The microphone is off.  appears in the display.



Switch on the microphone. You may continue telephoning.

If you end a call with the microphone muted, the microphone will be automatically reactivated when commencing the next call.

Setting the handset

You may make the handset settings when in basic status.

Ringling signal

⓪ #▼ Menu `Set telephone`

⓪ #▼ Menu `Ringling signal`

⓪ Confirm.

#▼ Make the desired ringling setting, e.g. `Ringling tone`. You may choose between ringling tone, vibrating, both, short ringling tone and mute.

⓪ Confirm.

The setting “set acoustics” applies for the ringling tone with the Message function!

MM588 requires a Vibra battery for a vibrating call signal (optional accessory).

For handsets with software from version 9.8x on, the handset rings even when the ringling signal is set to ‘vibrating’ and no vibrating battery is installed!

Information on P. 86 will help you determine which version of the software you have.

Setting the handset

Ringing volume



Press the programming button, 5, redial button, 2.

The display indicates the codes and the current volume (set to 8 when delivered): `Prog 5 2 8`.



Your handset rings at the set volume.



Enter the desired value between 0 and 9, e.g. 6.

The entered value appears in the display: `Prog 5 2 6`



Your handset rings at the desired volume. (The setting is not yet effective.)



Confirm the input.





Store the volume. The setting is now effective.


From handset software version 9.8x on, you can store the sequence – programming key, 5, redial key, 2 – for volume in the local telephone directory (P. 37).


Information on P. 86 will help you determine which version of the software you have.

Setting the handset

Ringing sound pattern

 **5**  **5** Press the programming button, 5, redial button, 5. The display indicates the codes and the current melody (set to 6 when delivered): `Prog 5 5 6`.

 Your handset rings with the set melody.

 **4** Enter the desired value between 0 and 9, e.g. 4. The entered value appears in the display: `Prog 5 5 4`

 Your handset rings with the desired melody. (The setting is not yet effective.)

 Confirm the input.

 Store the melody. The setting is now effective.

Key beep

  Menu `Set telephone`

  Menu `Key beep`

 Select the key beep, e.g. `Click`. You may choose between click, tone and off.

 Confirm.

From handset software version 9.8x on, you can store the sequence – programming key, 5, redial key, 5 – for sound pattern in the local telephone directory (P. 37).

Information on P. 86 will help you determine which version of the software you have.

Setting the handset

Handset volume



Menu **Set telephone**



Menu **Handset volume**



Confirm.



Enter the handset volume (from 1 to 4), e.g. 3.



Confirm.

Temporarily adjusting the handset volume during conversation



You are speaking on the telephone.



Press the volume buttons on the side of the handset housing.

The set volume remains effective for the current conversation. The preset handset volume will subsequently be reactivated.

Permanently setting the handset volume during conversation



You are speaking on the telephone.



Press the volume buttons on the side of the handset housing.




Press the right softkey.

Setting the handset



Lighting

MM588 and MM780 handsets have an illuminated display and keypad.

MM780 Ex T4 handset has an illuminated display.

  Menu `Set telephone`



  Menu `Lighting`

  Select the type of lighting, e.g. `off`. You may choose between off and automatic (lighting is switched on automatically when the handset is used).


 Confirm.

Setting the handset





Deactivating the call list

    Press the programming button, 1, redial button, 9.


  Enter the code 19.

 Store using the programming button.





Activating the call list

    Press the programming button, 1, redial button, 9.


  Enter the code 09.

 Store using the programming button.

Deactivating second call

    Press the programming button, 1, redial button, 9.


  Enter the code 18.

 Store using the programming button.

Activating second call

    Press the programming button, 1, redial button, 9.

  Enter the code 08.

 Confirm the setting.

Call list and second call are only available with the latest system software. If in doubt, please contact your sales representative.

From handset software version 9.8x on, you can store the sequence – programming key, 1, redial key, 9 – for call list or second call in the local telephone directory (P. 37).

Information on P. 86 will help you determine which version of the software you have.

Setting the handset

Reset

Performing a reset has the effect of returning some settings to their original status when delivered: Handset PIN, key tone, handset volume, display lighting. The PIN must be entered for this purpose.

① #▼ Menu `Set telephone`

① #▼ Menu `Reset`

① Confirm.

2_{ABC} 3_{DEF} 4_{GHI} 5_{JKL} Enter the PIN, e.g. 2345.

① Confirm. `Really reset?` appears in the display.

① Confirm.

When you receive your handset, the PIN is set to 0000. Refer to page 68 for more information about the PIN.

Emergency call

When your handset is locked, the only function that can be used is that of the emergency call number. The following appears in the display above the right softkey: SOS.

The MM780 / MM780 Ex T4 can always be used for an emergency call with the emergency call button at the top – even if the handset is not locked.

Setting up and changing emergency call numbers





  Menu

  Menu

 Confirm.

    Enter the PIN, e.g. 2345.

 Confirm.

    Enter the emergency call number, e.g. 6666.

 Confirm.

Making an emergency call, MM780 / MM780 Ex T4

Press the left emergency call button at the top for a **long** period. The emergency call number is dialled.

The SOS emergency call is not available: if an emergency call number has not been input, during a conversation, while a call or a message is being received, or if the handset is not within the range of the telephone system.

In order to delete an emergency call number, you must change the number. Do not enter anything as the telephone number (press the left softkey for a long period) and confirm using the right softkey.

Emergency call

Making an emergency call when the handset is locked

The handset is locked. **SOS** appears in the display above the right softkey.

① Press the right softkey. The emergency call number appears in the display, e.g. **6666 ?**

② Confirm. The emergency call number is dialled.

Personal Identification Number (PIN)

Important settings and functions of your handset are safeguarded by means of a four-digit Personal Identification Number (PIN). You may change the PIN. The PIN also enables you to lock your handset.





For security reasons, you are provided with a second PIN for resetting the call charge meter. This PIN can also be changed.

Regular PIN



  Menu **Lock**

  Menu **Create PIN**





 Confirm.

    Enter the old, regular PIN. (When delivered, this is set to 0000). The digits do not appear in the display.

 Confirm.

    Enter the new, regular PIN, e.g. 2345. The digits do not appear in the display.

 Confirm.


    Repeat the new, regular PIN. The digits do not appear in the display.

 Confirm.


Take good note of your PIN! If you forget the PIN, an adjustment inside the telephone will be necessary. Contact the Tenovis Service in this case.





Personal Identification Number (PIN)


Additional PIN number for charges and special functions





 Press the programming button.

  Enter the code 80.

 Press the redial button.

    Enter the old additional PIN. The digits do not appear in the display. (When delivered, this is set to 0000).

 Press the redial button.

    Enter the new, additional PIN, e.g. 3456.
The digits do not appear in the display.

 Press the programming button.

Locking the handset

Locking

  Menu **Lock**


  Menu **Lock**





 Confirm.

The handset is locked.  appears in the display.

Unlocking

The handset is locked.  appears in the display.

 Press any key (except the right softkey). **Enter PIN** appears in the display.



    Enter the PIN, e.g. 2345. The PIN does not appear in the display.

 Confirm.

All functions are blocked when the handset is locked. Only the emergency call feature will work (p. 66).

Locking the handset

Keyboard lock via the menu

  Menu `Set telephone`

  Menu `Keyb. lock`

 Confirm.

Keyboard lock via the keys

  Lock.



Unlocking the keyboard

The keyboard is locked.

  Unlock.

Language

Determining the language of the local menu

  Menu `Set telephone`




  Menu `Language`

  Select the `English` language.

 Confirm.

Setting the language of the telephone system

   Press the programming button, 1, and redial button.

   Enter the number of the desired language, e.g. 921.

 Confirm.

You do not need to set the language of the system. This is already configured.

The digits have been preset for new system software, see list on P. 89. If in doubt, please consult your sales representative.

Messaging

Messaging enables you to send and receive brief messages with your handset.

You may send messages to individual subscribers and to groups. The call number of a subscriber may vary from his telephone number in certain cases.

The messages are defined texts. The subsequent dialing of arbitrary digits is permissible, as required. The list of defined texts can be obtained from your system administrator.

The sender receives confirmation of the successful transmission of the message, and of acknowledgement of receipt of the message by the receiver, should this occur.

A message which does not reach you goes into the message list (the last 10 messages). You may call back directly from the list.

The messaging functions are only available when the message server has been connected.

The message server supplements your private telephone system.


Receiving a message

 Your handset rings with a special ringing tone.


In the display appears the telephone number of the sender (where given) and the message: e.g. `5371 Meeting in room 109`

While the message remains visible, you have the following options:


Deactivate the ringing tone

 Press the R button.



Cancel the message in the display

 Press the left softkey. The message goes to the message list. `mail` appears in the idle display.

Delete the message totally

 Press the 0 key.

... or ...





  Press the shift key, followed by the left softkey.

Manual confirmation

Important messages are preceded by an exclamation mark, e. g. `! Meeting`. These must be manually confirmed.

Manual confirmation, positive

A message with an exclamation mark is in the display, e. g. `! Meeting in room 109`. You must confirm manually.

    Press the shift key, then the right softkey, and then the star key twice. `+++OK` appears in the display.

The ringing tone varies depending on the urgency of the message.

Receiving a message

Manual confirmation, negative

A message with an exclamation mark is in the display, e. g.

`! Meeting in room 109`. You must confirm manually.



Press the left softkey. `---OK` appears in the display.

Message list

If a message does not reach you, it is entered into a message list (the last 10 messages). You may call back from the list.

View the message list

If **MAIL** appears in the idle display (in capitals), you have unread messages. The list must then be checked!



Press the shift key, followed by the 0 key.

Viewing the message list when a number of lists are active



Press the shift key, followed by the 0 key. **Mail list** appears in the display.



Confirm using the Prog button. The following appears in the display:
e.g. **5371 Meeting in 25.01 09:41 02**

Scrolling



Use the star and # buttons to scroll. The following appears in the display: e.g. **6789 conference 15.05 12:26**

If the message does not fit on one line

If the message is too long, it is shortened. You may have the message displayed in its entirety.



Press the redial button.

Callback to the sender if message comes from a system handset



Pick up using the handset key.

An entry includes the sender number, text, date and time of the last message and the number of attempts.

Message list

Clearing a message from the list



Press the 0 key.

... or ...



Press the shift key, followed by the left softkey.

Send a message

Send a defined text



Press the shift key, followed by the right softkey.

`Mail address` appears in the display.



Enter the number, e.g. `1234`.



Press the star key. `1234*` appears in the display.



Enter the number of the text, e.g. 78. `1234*78` appears in

the display.



Press the star key.

The defined text appears in the display, e.g. `1234*Meeting in Room`.

(You can use the left softkey to make corrections, where necessary, and to enter the number for a different text.)



Press the # key.



`Message sent` appears briefly in the display.


The defined texts are stored centrally. A list of defined texts can be obtained from your system administrator.


You may store the complete sending procedure for a message in the local telephone directory, e.g., 1234, star, 78, star, star, 109, #. This is useful for emergency calls, for example.



Send a message


Sending a defined text with postdialled digits

  Press the shift key, followed by the right softkey.
 Mail address appears in the display.


    Enter the number, e.g. 1234.


 Press the star key. 1234* appears in the display.

  Enter the number of the text, e.g. 78. 1234*78 appears in the display.

 Press the star key.


The defined text appears in the display, e.g. 1234*Meeting in Room.

(You can use the left softkey  to make corrections, where necessary, and to enter the number for a different text.)

 Press the star button.

   Dial digits where required, e.g. 109.

1234*Meeting in Room 109, for example, appears in the display.

 Press the # key.

Message sent appears briefly in the display.

Verification

POS Meeting ... appears soon after successful transmission of the message.

NEG Meeting ... appears in the display shortly afterwards if the subscriber confirms negatively or is not reachable.

If the subscriber is not identifiable, or has not message reacted to a message with manual confirmation, ??? Meeting ... appears in the display shortly afterwards.

Send a message

Send a direct call

With direct calling, you are sending a defined text with a defined number to a defined receiver (subscriber or group).

A list with the direct call numbers can be obtained from your system administrator.



Press the shift key, followed by the right softkey.

`Mail address` appears in the display.



Enter the direct call number, e.g. `4321`.



Press the # key.

`Message sent` appears briefly in the display.


Send a message

Send a defined text with the local telephone directory

  Menu `Local tel. dir.`


  Menu `Search`



 Confirm.


 Search for the entry, e.g. `Claes`

 Press the shift key. `Msg.to` appears in the display by the right softkey.


 Press the right softkey. `1234 Mail address`, for example, appears in the display.


 Press the star key. `1234*` appears in the display.

  Enter the number of the text, e.g. 78. `1234*78` appears in the display.

 Press the star key.


The defined text appears in the display, e.g. `1234*Meeting in Room`.

(You can use the left softkey  to make corrections, where necessary, and to enter the number for a different text.)

 Press the star key.

   and dial digits where required, e.g. 109.

`1234*Meeting in Room 109`, for example, appears in the display.

 Press the # key.

`Message sent` appears briefly in the display.

Using the handset in a number of systems

Your handset can be registered with several systems (up to 8). It features several system entries for this purpose. You may change the names of these entries.

To log on to a system, you may either use a free system entry or overwrite a system entry that is already being used.

Registering the handset (on a free system entry)

Have the 8-digit AC code ready. This is obtained from the Tenovis Service. You have 2 minutes to make the setting.

- ① #▼ Menu **System**
- ① #▼ Menu **Log on tel.**
- ① #▼ Select the system, e.g. **System 4**.
- ① #▼ Select the telephone system: **I33**
- ① Confirm. **Enter PARK** appears in the display.
- 1☒ 2^{ABC} ... Enter the PARK number, if known.
- ① Confirm. **Enter AC** appears in the display.
- 1☒ 2^{ABC} ... Enter the AC code, e.g. 123 123 12.
- ① Confirm.

To be able to log on, the handset must be within range of the telephone system.

Using the handset in a number of systems

Registering the handset (on a system entry already being used)

Have the 8-digit AC code ready. This is obtained from the Tenovis Service. You have 2 minutes to make the setting.

☎ #▼ Menu **System**

☎ #▼ Menu **Log on tel.**

☎ #▼ Select the system, e.g. **System 4**.

☎ Confirm. **Delete subscr.?** appears in the display.

☎ Confirm.

#▼ Select the telephone system: **I33**

☎ Confirm. **Enter PARK** appears in the display.

1☒ 2^{ABC} ... Enter the PARK number, if known.

☎ Confirm. **Enter AC** appears in the display.

1☒ 2^{ABC} ... Enter the AC code, e.g. 123 123 12.

☎ Confirm.

Using the handset in a number of systems

Set the system selection process

From software version 9.8x on, the handset can conduct the system change automatically whenever you move to a different location.

☎ #▼ Menu **System**

☎ #▼ Menu **Selection process**

☎ #▼ Select the selection process, e.g. **Automatic**.

☎ Confirm.

You have the choice between **Exclusive** (no automatic system change) and **Automatic** (automatic system change).

Information on P. 86 will help you determine which version of the software you have.

We recommend not to change the system selection process without competent advice.

Using the handset in a number of systems

Selecting the system manually

If you move to another location and your handset is not set for automatic system selection, change the system manually.

① #▼ Menu `System`

① #▼ Menu `Select system`

① #▼ Select the system, e.g. `System 4`.

① Confirm.

Changing the system name

① #▼ Menu `System`

① #▼ Menu `Change name`

① #▼ Confirm. Select the system, e.g. `System 4`.

① Confirm.

2 ABC ... Change the name (up to 14 characters), e.g. `West Site`.

① Confirm.

If system selection is set to automatic (possible with handset software from 9.8x on) and you attempt to change the system manually, `Automatic system selection` appears in the display.

Information on P. 86 will help you determine which version of the software you have.

Using the handset in a number of systems

Querying the telephone ID

- ① # Menu System
- ① # Menu Telephone ID
- ① # Select menu IPEI or menu IPUI .
- ① Confirm. IPUI:0000830daa , for example, appears in the display.
- ⓪ Press the left softkey for a **long** period to return to basic status.

Querying the software version

- ① # Menu System
- ① # Menu Software version
- ① Confirm. 9.80 17.01.00/1.98 , for example, appears in the display.

List of defined texts for messaging

Number	Defined text	Message type

Codes for your handset

Here you can enter the codes that are set up in your telephone system. These codes can be obtained from your system administrator.

Setting	Code
Double call	Determine destination
	Activate
	deactivate
Conference	
Activating a callback	
Code dialling	
Call diversion	Activate
	deactivate
Call forwarding	Activate
	deactivate
Call diversion if handset busy	Activate
	deactivate
Call diversion if handset not accessible	Activate
	deactivate
Follow me	Enabling at the other telephone
	Deactivating at the other telephone
DTMF Postdialling	Activate
	deactivate
Pick-up	General
Group pick-up	Random
	Direct

Codes for your handset

If your system has the latest software version, see the language codes below. Your system administrator will inform you which languages correspond to codes 920, and 956 to 960.

Number	Language in the telephone system
920	
921	German
922	English
923	French
924	Italian
925	Spanish
926	Dutch
927	Hungarian
928	Czech
929	Slovenian
950	Russian
951	Polish
952	Danish
953	Slovakian
954	Serbian
955	Croatian
956	
957	
958	
959	
960	

Further information about your handset

Service, installation and maintenance

Do not unscrew the handset housing. Repairs and adjustments are the exclusive domain of a qualified technician.

Your handset is designed for use in standard operating conditions. Contemporary items of furniture are coated with a great variety of varnishes and plastics, and treated with various varnish preservation agents. For this reason, it cannot be ruled out that some of these substances contain components that can attack and soften the plastic feet of your charger. The unit feet that have been altered by these foreign substances may, in certain circumstances, leave unpleasant marks on the surface of the furniture.

Understandably, Tenovis cannot be liable for such damage. You are therefore advised to use an antiskid surface for your charger, in particular with new furniture or furniture that has been refreshed using varnish preservation agents.

When required, wipe your handset with a slightly damp or antistatic cloth. Do not use a dry cloth, as this could lead to malfunctions. Never use polish or abrasive cleaning agents.

If you have any further questions or problems, please contact your specialist dealer or the Tenovis Service.

Weathering (MM588)

Protect your handset against dampness, direct sunlight and extremely low temperatures.

Avoid sudden transitions from cold to warm conditions. Otherwise condensation will form on the handset.

Protect your handset against sprayed water and the intense accumulation of dust or dirt.

The **MM780** is also suitable for use outdoors or in a dusty environment. It complies with protection class IP54 and is splash-proof and dust-proof.

Safety instructions

for the use of explosion-proof units (MM788 Ex T4)

Additional information for the proper use of explosion-proof telephones

- Only telephones which comply with the fundamental safety and health requirements of the 94/9/EEC directive may be operated in hazardous areas. Units which satisfy these requirements, bear the CE conformity mark, followed by the identification number (0032) of the designated centre which monitors the quality assurance system.
- Hazardous areas (zones) vary in their danger level. The telephones may be operated only in those zones which do not have a higher danger level than the unit group and category specified by the manufacturer. The operator of the system and/or units is responsible for specifying the zones.
- Explosion-proof units may be operated only with batteries which, together with the unit, are authorised for this particular application.
- Batteries must not be disconnected from the unit in the hazardous area.
- It is forbidden to bring individual batteries into the hazardous area.
- All work on the unit as well as the charging of the batteries in the UM780 charger must be performed outside the hazardous areas! Other chargers must not be used!
- The rubber cover for the connection socket is glued into the housing. Following parameterisation or programming of the unit, the cover must be glued back in to the housing. Removal of the cover is equivalent to opening the unit as far as explosion-protection is concerned!
- The unit may only be opened by a technician in compliance with DIN EN 60079-17.
- A combined handset / headset must not be connected to explosion-proof units.
- The use of the carrying clip is a component of the explosion-proof certification and must not be removed.

Safety instructions

- Only a protective case may be used which is authorised for use with this unit in hazardous areas.
- Before a unit which has been opened or repaired is switched on again, it must be tested in compliance with ElexV §9 by a technician in compliance with ElexV §15 or must be subject to a routine test by the manufacturer.
- Units which are clearly damaged or even only suspected of being damaged must not be brought into the hazardous area, or they must be switched off immediately and taken out of the hazardous area. Prevent switching on the unit unintentionally.
- Any change to the unit or its components not authorised by the manufacturer will invalidate the operating licence of the unit.
- Observe all safety regulations. They protect not only your life!

Repair procedure for explosion-proof unit models

Defective units must not be replaced with new units via a unit exchange pool (ready ware) but must be sent for repair to our repair centre for explosion-proof units. The stipulated routine test by the manufacturer is then guaranteed.

- Units which are to be repaired must always be sent in with the explosion-proof battery pack.
- To prevent the explosion-proof battery pack from becoming exhausted, disconnect the battery pack from the unit prior to dispatch!
- The individually repaired and tested unit is then returned to the customer.

The address of our repair centre is:

Tenovis GmbH & Co. KG
Zentralreparatur Funkruf / Mobility
John-F.-Kennedy-Straße 43-53
38228 Salzgitter

Start-up

Inserting the battery pack

Explosion-proof unit model

Follow the safety instructions on Page 91!

Only battery packs with article no. 77700315171 can and may be used with explosion-proof unit models.

Other batteries identical in appearance can neither be electrically contacted nor mechanically attached to the unit.

All work on the unit must be performed outside the hazardous areas.

Insert the battery pack into the unit as described on Page 10. By exerting light pressure on the battery, the two battery clips lock into position in the unit.

The battery can be charged either in the unit or separately. Insertion of the battery pack into the charger is described on Page 11.

Changing the battery pack

The battery pack may be disconnected outside hazardous areas only.

Release the battery pack with the supplied special tool only. Other tools may damage the release mechanism and render the explosion-protection of the unit ineffective. The unit will then lose its operating licence! Only the battery with article no. 77700315171 may be used with the unit.

Charge the battery pack only with the UM780 charger and only outside the hazardous areas!

Individual battery packs must not be brought into hazardous areas.



Danger symbol for hazardous areas

Start-up

Approval and Conformity

We Tenovis GmbH & Co. KG declare that the products MM588, MM780, and MM780 Ex T4 concur with the basic requirements and other relevant provisions of guideline 1999/5/EC (R&TTE).

These units are designated for connecting to radio interfaces (DECT™) of Tenovis PABX systems and fulfil the basic requirements in accordance with the EU guideline 1999/5/EC (Radio and Telecommunication Terminal Equipment, R&TTE).

These units are not designated for direct operation on interfaces of public telecommunication networks.

In the event of any problems, please contact your dealer or Tenovis Service.

The Declaration of Conformity can be requested on the following internet address: www.tenovis.com/deutsch/verzeichnis/conformance.htm or search in the index under the keyword: conformity.

This unit operates in accordance with DECT™ system in the frequency range of 1880 to 1900 MHz. The identification of this frequency range in the frequency utilisation plan is applicable for a time period of 10 years and is updated depending on European harmonisation.

Explosion-proof certification

The MM780 Ex T4 unit has been tested in compliance with the 94/9/EC directive.

The unit complies with explosion-proof protection class **Ex II 2G (EEx ib IIC T4)** and has been issued with EU type test certificate no. **TÜV 00 ATEX 1637 X**.

Specifications

Business Handset MM588

Standard:	DECT™ (Digital Enhanced Cordless Telecommunications).	
Dimensions:	121 x 50 x 22.5 mm plus antenna	
Weight, handset:	Approx. 115 g (with standard battery pack)	
Battery type:	Li-Ion; 650 mAh	
Operating time for handset (with full battery):	Conversation:	Up to 10 hours
	Stand-by:	Up to 70 hours
Charging time:	Max. 8 hours	
Frequency range:	1.88–1.9 GHz	
Transmitting power:	Mean: 10 mW, Peak: 250 mW	
Permissible operating temperature:	Handset:	–10 °C to +40 °C
	Charger:	+5 °C to +40 °C
Storage temperature:	–5 °C to +45 °C	
Transport temperature:	Without battery	–25 °C to +70 °C
	With battery	–25 °C to +60 °C
Protection category:	IP 40	
Accessories	Charger	
	Battery pack	
	Vibrating battery pack	
	Clip	
	HSG30-DECT Combined handset / headset	
	Carrying case	
	EU-Reiselader	

Some of the listed accessories must be ordered separately!

Specifications

Industrial Handset MM780

Not for use in hazardous areas except zones 2 and 22 in accordance with specifications in the manufacturer's declaration!

Standard:	DECT™ (Digital Enhanced Cordless Telecommunications).	
Dimensions:	147 x 53 x 24.5 mm plus antenna	
Weight, handset:	180 g V	
Battery type:	Li-Ion; 650 mAh	
Operating time for handset (with full battery):	Conversation:	Up to 10 hours
	Stand-by:	Up to 70 hours
Charging time:	Max. 8 hours	
Frequency range:	1.88–1.9 GHz	
Transmitting power:	Mean: 10 mW, Peak: 250 mW	
Permissible operating temperature:	Handset:	–10 °C to +45 °C
	Charger:	+5 °C to +40 °C
Storage temperature:	–5 °C to +45 °C	
Transport temperature:	Without battery	–25 °C to +70 °C
	With battery	–25 °C to +70 °C
Protection category:	IP 54 dust-proof and splash-proof	
Accessories	Charger Battery pack HSG30-DECT Combined handset / headset Carrying case	

Some of the listed accessories must be ordered separately!

Specifications

Industrial Handset MM780 Ex T4

Standard:	DECT™ (Digital Enhanced Cordless Telecommunications).	
Dimensions:	147 x 53 x 24.5 mm plus antenna	
Weight, handset:	195 g V	
Battery type:	Li-Ion; 650 mAh	
Operating time for handset (with full battery):	Conversation:	Up to 10 hours
	Stand-by:	Up to 70 hours
Charging time:	Max. 12 hours	
Frequency range:	1.88–1.9 GHz	
Transmitting power:	Mean: 10 mW, Peak: 250 mW	
Permissible operating temperature:	Handset:	–10 °C to +40 °C
	Charger:	+5 °C to +40 °C
Storage temperature:	–5 °C to +40 °C	
Transport temperature:	Without battery	–25 °C to +70 °C
	With battery	–25 °C to +70 °C
Protection category:	IP 54 dust-proof and splash-proof Ex II 2G (EEx ib IIC T4) Explosion-proof	
Accessories	Charger Battery pack Explosion-proof carrying case	

Charger **not** for use in hazardous areas!

Some of the listed accessories must be ordered separately!

Table of characters

The digit keys may also be used to enter letters and numbers, e.g. for names in the local telephone directory. Your telephone will automatically switch to the input of letters when this is required.

The second line shows you the lower case letters. How to enter the characters is explained on page 18.

Key	Characters
1 	Space character . ? ! , & : " () ' % £ \$ 1
2  <small>ABC</small>	A B C Ä Å À Æ Ç 2 a b c ä å à æ ç 2
3  <small>DEF</small>	D E F É È 3 d e f é è 3
4  <small>GHI</small>	G H I Ì 4 g h i ì 4
5  <small>JKL</small>	J K L 5 j k l 5
6  <small>MNO</small>	M N O Ñ Ø Ö 6 m n o ñ ø ö 6
7  <small>PQRS</small>	P Q R S ß 7 p q r s ß 7
8  <small>TUV</small>	T U V Ü Û 8 t u v ü ù 8
9  <small>WXYZ</small>	W X Y Z 9 w x y z 9
0 	+ - x * / = > < # 0

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Tenovis GmbH & Co. KG · Austria
Hüttenbrennergasse 5 · A-1030 Wien
T +43 (0) 1 87870-0
F +43 (0) 1 87870-7370

N.V. Tenovis S.A. · Belgium
Rue Henri Genesse 1 · B-1070 Bruxelles
T +32-2-5255111
F +32-2-5255000

Tenovis S.A. · France
122, Rue Marcel Hartmann
F-94853 Ivry s/Seine
T +33-1-45156515
F +33-1-45156500

Tenovis S.r.l. · Italy
Via Gadames, 7 · I-20151 Milano
T +39 02 39244-1
F +39 02 39244-805

Tenovis BV · Netherlands
Neptunusstraat 71 · NL-2132 JP
Hoofddorp
T +31-23-5656-410
F +31-23-5656-411

Tenovis GmbH · Switzerland
Ifangstrasse 1 · CH-8952 Schlieren
T +41 (0) 1738-7272
F +41 (0) 1738-7218

**Telecomunicaciones Tenovis S.L.
Spain**
Carretera N-VI, KM 18,150
E-28230 Las Rozas (Madrid)
T +34-91-6312400
F +34-91-6312486

MKS · Bosnia
Kotromanica 48 · BH-Sarajevo
T +3 87 71 27 5825
F +3 87 71 27 5835

Telenorma Colombia S.A.
Av. 13 (alt. Norte) No 118-30 Of. 702
Santafé de Bogotá
T +57 1 600 0400
F +57 1 629 4272

**Robert Bosch Odbytová s.r.o.
Czech Republic**
Pod visnovkou 25
CZ 142 00 Praha
T +420 2 6130 0612
F +420 2 6130 0638

**MTS Modern Telecom System
Egypt**
Sheraton Heliopolis Buildings,
Area 1157, Building 12
Nasr City, Cairo
T +20 (2)2682365
F +20 (2)2682371

**MTV Telecom Distribution PLC
Great Britain**
Sky Business Park
Eversley Way
Thorpe, Egham
Surrey TW20 8RF
T +44 (0)1784 740000
F +44 (0)1784 744030

Telenorm Ltd. · Greece
Ethelonton Aimodonton Str. 3
12131 Peristeri, Athen
T +301 5785220 · F +301 5785227

NORMA Telecom AG · Greece
Polytechniou 6
54626 Saloniki
T +303 1500600
F +303 1555347

INFA Telecom · Hong Kong
38/F Manulife Tower
169 Electric Road, Hong Kong
T +85-2-28066653
F +85-2-25107243

Robert Bosch Kft. · Hungary
Gyömrői út 120 · H-1103 Budapest
T +36-1-4313-700
F +36-1-4313-717

**NETCOMM Telephone Systems Ltd.
Mauritius**
34, De Courcy Street
Port-Louis
T +230-211-6400
F +230-211-5226

Computer Telephony S.A. de C.V.
Diagonal No. 27 · Col. Del Valle
03100, México, D. F.
T +525 340-1411
F +525 340-1402

**EI Corporation
Philippines**
188 E Rodriguez jr. Avenue
Ortigas Industrial Estate
Quezon City, Metro Manila 1110
T +63-2-63 508 51
F +63-2-63 509 75

**C&C Partners Telecom Sp. zo.o.
Poland**
Ul. 17 Styczenia 119, 121 · PL. 64-100 Leszno
T +48 65 5255 555
F +48 65 5255 666

VADO Telecom · Russia
Krasnaja Presnja 28
RF 123376 Moscow
T +7-095-252 00 21
F +7-095-956 70 36

TEHCOM d.o.o. · Yugoslavia
Bulevar vojvode Mičića 37
SR-11000 Beograd
T +381 11 3690211
F +381 11 3690211

Procom Inzeniring d.o.o. · Slovenia
Likožarjeva 14 · SI-1000 Ljubljana
T +3 86 130 66 212
F +3 86 130 66 222

**ELCyM Telecoms (Pty) Ltd.
South Africa**
1, Samrand Avenue · Samrand Industrial
and Commercial Park · P.O. Box 10025,
Centurion 0157
T +27 12 677-6000
F +27 12 677-6677

MTechSA (Pty) Ltd. · South Africa
92, Indaba Lane
P.O. Box 1403
Reitfontein/Honeydew, Krugersdorp
T +27 11 796 2600
F +27 11 796 2655

Telenorma C.A. · Venezuela
Avenida Republica Dominicana
Edf. Delcha 1, Boleita Sur
Apartado del Este 61405 · 1060A Caracas
T +58-212-2077511
F +58-212-2398735

www.tenovis.com
kundendialog-center@tenovis.com

(Germany)
T 0800-2 66 1000
F 0800-2 66 12 19

(International)
T +49 (69) 75 05-28 33
F +49 (69) 75 05-28 41