

TELEHANDSFREE

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Telehandsfree is an automatic telephone set wich allows to set up a hands-free communication with a previously-programmed telephone number upon pressing the respective emergency-call pushbutton.

Telehandsfree answers incoming calls automatically or upon pressing the emergency pushbutton, which makes possible room-monitoring or different applications. Telehandsfree is also equipped with 2 relays for remotely activating a number of electronic devices.

VERSIONS

Telehandsfree: 1-emergency button

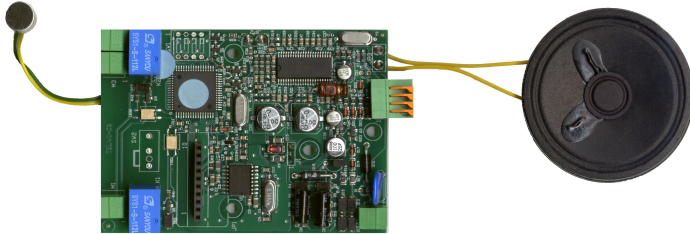
It allows to set up a hands-free communication with a previously-programmed telephone number.



Telehandsfree: kit

Telehandsfree kit is an electronic board specifically designed for built-in applications and can be connected with max. 3 pushbuttons.

It allows to set up a hands-free communication with 3 previously-programmed telephone numbers.



MAIN FEATURES AND CHARACTERISTICS

- Connection options:
 - PSTN analog line
 - GSM network (for ex. through GSM500 module)
 - PABX
- Connection to the telephone-line by inserting two wires in the dedicated terminal (**LTI**)
- Telephone-line powered
- From 1 to 3 emergency-call pushbuttons
- 2 relays
- Relays powered by the dedicated terminal **12V**
- Ring on incoming calls
- TAXI mode

- Remote programming via DTMF tones
- Settings:
 - telephone numbers as call recipient
 - activating TAXI mode
 - engage/disengage key
 - password-protected relay activation
 - changing relays password
 - device status after relay activation
 - conversation time under alarm
 - connexion time
 - pushbutton delay
 - speaker volume adjustment
 - receiver volume adjustment
 - restoring default settings
 - restoring default audio settings
- Jumper for incoming-calls block
- Remote line clearing detection
- Engaged tone detection

INSTALLATION

- Connect the telephone line to the terminal **LTI**.
- Connect both relays through the **RL1** and **RL2** terminals.
- Supply the relay circuit through a +12Vdc source connected to the **12V +** and **-** terminals.

Telehandsfree kit mounting instructions

- Keep the adequate distance between the microphone and the loudspeaker by sticking to the lengths of the cables supplied.
- The microphone hole should have a 3 mm-diameter.
- Make sure the panel holes are adequately located in front of the loudspeaker.
- The electronic board should be installed at a 5 mm distance from metal parts.
- Don't remove the rubber placed on the microphone.
- Make sure the microphone does not get in touch with metal parts.
- To make connections, please refer to the wiring diagram below:



- C: common
- 1: pushbutton 1
- 2: pushbutton 2
- 3: pushbutton 3

OPERATION

Outgoing calls

Upon pressing the emergency-call pushbutton, the handsfree conversation will be automatically established (the yellow led, if present, lights up) and the call will be automatically sent out to the previously-programmed telephone number.

Conversation will be interrupted either when the called party terminates the call or when the *Conversation time* has elapsed.

In case of no answer the call will be forwarded throughout the whole preset *Conversation time*. In case of busy number the call will be interrupted.

At the end of a call or when the preset *Conversation time* has elapsed, in order to make a new call, the pushbutton must be pressed again.

Under conversation mode (handsfree turned on) or programming mode, pressing the pushbutton has no effect.

Note: when the preset Conversation time has elapsed a tone will be heard and the Conversation time can be extended by entering any digit.

Incoming calls

The Telehandsfree may be called in order to hear voices/noises coming from the same environment where it is installed or to program it.

When the Telehandsfree answers the call, a tone will be heard and the handsfree mode will be automatically established (connection status; the green led, if present, lights up).

Conversation will be interrupted either when the calling party terminates the call or when the *Connection time* has elapsed.

Note: when the preset Connection time has elapsed a tone will be heard and the Connection time can be extended by entering any digit.

TAXI mode

Under TAXI mode, the Telehandsfree rings like an ordinary telephone set upon an incoming call. To answer the call, you need to press a previously programmed pushbutton. (s. programming “Engage/disengage key”).

Upon pressing the engage/disengage key, you talk handsfree (connection status; the yellow led, if present, lights up).

Conversation will be interrupted either when the calling party terminates the call or when the engage/disengage key is pressed again or, finally, when the *Connection time* has elapsed.

Note: when the preset Connection time has elapsed a tone will be heard and the Connection time can be extended by entering any digit.

Note: the engage/disengage key will lose its emergency-call pushbutton functionality. In idle state, if the engage/disengage key is pressed, it engages the telephone line but it does not send out any calls.

Relays

The activation of both relays can be protected by password and can be effected even under programming mode, irrespective of the type of call in progress (incoming, outgoing or TAXI mode).

The relay is activated for 2-second time, at the end of which you hear a confirmation tone and the conversation mode is resumed or the call is interrupted (s. programming “Device status after relay activation”).

Activation relay 1

- Dial **# 2 1**.
- Enter, if required, the relay 1 password (factory default 000).

Activation relay 2

- Dial **# 2 2**.
- Enter, if required, the relay 2 password (factory default 000).

Ending a call

In order to end the phone call:


- Dial **# 0 #** and hang up.

PROGRAMMING

The Telehandsfree can be programmed from a standard telephone set by calling the number assigned to the telephone line connected to the device.

When the Telehandsfree answers, a tone will be heard and handsfree communication will be automatically established (connection status; the green led, if present, lights up).

In order to switch from the connection status to the programming mode:

- Dial .
- Dial any programming code.

The handsfree will be turned off and the yellow led, if present, lights up.

If the entered codes are correct you will hear the confirmation tone otherwise you will get the error tone. In both cases, you will remain under programming mode.

You exit the programming mode when the device stops receiving DTMF tones for a min. time equal to 10 seconds, or by digiting the codes dedicated for exiting programming or ending the call.

Note: upon conversation, you can always enter programming, irrespective if the type of call in progress (incoming, outgoing or TAXI mode).

Note: upon programming, the handsfree mode is off and both leds are lit.





Programming exit

In order to switch from the programming mode to the connection status:

- Dial   .





How to program a telephone number

First number

- Dial   .
- Enter the desired telephone number, (max 20 digits).
- Dial .





Factory default value: 401.

Second number


- Dial   .
- Enter the desired telephone number, (max 20 digits).
- Dial .

Factory default value: 402.

Third number

- Dial   .
- Enter the desired telephone number, (max 20 digits).
- Dial .

Factory default value: 403.

Note: to enter one or more pauses (2 seconds each) when selecting the telephone number, press once or more .

TAXI mode

It allows to set the TAXI mode.

Factory default value: disabled.

Enabling

- Dial **[*][8][1]**.

Disabling

- Dial **[*][8][0]**.

Engage/disengage key

It allows to program a pushbutton with the engage/disengage function under TAXI mode:

- Dial **[*][1]**.
- Dial:
 - 1 for the pushbutton 1
 - 2 for the pushbutton 2
 - 3 for the pushbutton 3
- Dial **[#]**.

Enabling password request for using relays.

Default: password not required for using both relays.

Disabling password request for relay 1

- Dial **[*][7][0]**.
- Digit the password dedicated for relay 1 (factory default 000).

Enabling password request for relay 1

- Dial **[*][7][1]**.
- Digit the password dedicated for relay 1 (factory default 000).

Disabling password request for relay 2

- Dial **[*][7][2]**.
- Digit the password dedicated for relay 2 (factory default 000).

Enabling password request for relay 2

- Dial *73.
- Digit the password dedicated for relay 2 (factory default 000).

Changing password for relay use

The password must be compulsorily 3-digit.

Factory default value:

- password dedicated for relay 1: 000
- password dedicated for relay 2: 000

Changing password for relay 1

- Dial *74.
- Digit the old password dedicated for relay 1.
- Digit the new password dedicated for relay 1.

Changing password for relay 2

- Dial *75.
- Digit the old password dedicated for relay 2.
- Digit the new password dedicated for relay 2.

Device status after relay activation

It allows to define the Telehandsfree operation status after relay activation. It is possible to stop the communication immediately or to resume the conversation mode.

Factory default: the call is interrupted.

Resume the conversation mode after relay activation

- Dia *90.

Interrupt the call after relay activation

- Dia *91.

Conversation time

- Dial **[*][3]**.
- Enter the max. time (expressed in seconds) allowed for the conversation mode in case of outgoing calls being sent by the Telehandsfree (20 to 500).
- Dial **[#]**.

Factory default value: 150 seconds.

Note: handsfree conversation will be automatically started at the end of the telephone number dialout, disregarding the answer of the called party.

Connection time

- Dial **[*][6]**.
- Enter the max. time (expressed in seconds) allowed for the conversation mode in case of incoming calls being answered by the Telehandsfree (20 to 500).
- Dial **[#]**.

Factory default value: 60 seconds.

Note: the conversation mode starts when the Telehandsfree answers an incoming call.

Pushbutton delay

- Dial **[*][5]**.
- Enter the minimum number of seconds you need to keep the pushbutton pressed before the call is established (from 0 to 9).

Factory default value: 0 seconds.

Speaker volume adjustment

- Dial **[*][4][2]**.
- Enter the desired volume level (from 1 to 4).

Factory default value: 3.

Receiver volume adjustment

- Dial **[*] [4] [1]**.
 - Enter the desired receiver volume level (from 1 to 4).
- Factory default value: 3.

Restoring the factory default

It allows to restore factory-default settings:

- Dial **[*] [0] [8] [5] [2] [#]**.

Factory default values:

- pushbutton 1: 401
- pushbutton 2: 402
- pushbutton 3: 403
- TAXI mode: disabled
- engage/disengage key: none
- device status after relay activation: the call is interrupted
- conversation time: 150 seconds
- connection time: 60 seconds
- pushbutton delay: 0 seconds
- speaker volume: 3
- receiver volume: 3

Restoring the default audio settings

It allows to restore default audio settings:

- Dial **[*] [0] [8] [5] [2] [*]**.

Factory default values:

- speaker volume: 3
- receiver volume: 3

Blocking incoming calls

It is possible to block incoming calls by using the jumper located on the circuit board.

Enabled incoming calls:

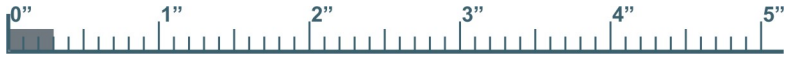


Disabled incoming calls:



TONES

Connection



Confirmation



Error



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