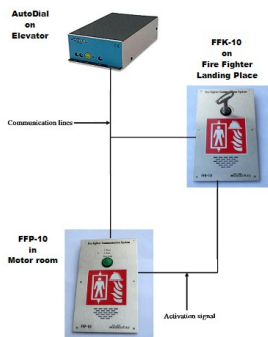


## Accessories

Below you find a short list of accessories to the VoicePilot TSA2100, for a complete list please visit our homepage [www.abp-teletech.com](http://www.abp-teletech.com), contact your local distributor or [sales@abp-teletech.com](mailto:sales@abp-teletech.com)



### Fire Fighter Communication system - FFK10 and FFP10

Lift communication system for fire lifts according to EN 81-72. Gives the possibility to have communication between the lift car, the lifts motor room (FFP10) and the fire fighter landing place (FFK10). The system is activated via a key switch.

Works with both the VoicePilot TSA2100 and the TSA5100 Autodial. Available in flush or surface mount versions.



### LineSaver ALC10 (ABP TeleTech part number 9151100000)

With a ALC10 LineSaver it is possible to connect up to 8 Lift Alarms (TSA5100 and/or TSA2100) to one telephone line and still have the possibility to dial up to a specific lift alarm.  
(required in EN 81-28)



# VoicePilot TSA2100 justAphone



## PSTN Lift Alarm Installation & User Guide

Rev. 1.0 EN  
8. June 2010

## Table of Contents

Preface.....	3
Obligations.....	3
Package contents.....	3
Placing and mounting.....	4
Connections & wiring.....	4
Master Reset.....	5
Programming.....	6
Local programming.....	6
Remote programming.....	6
Minimum programming.....	6
Programming and answering the VoicePilot TSA2100 using protocols.....	7
General information about protocols.....	7
TeleTech+ protocol.....	8
Manual Acknowledge protocol.....	8
Voice detect.....	9
Manual self test.....	10
Automatic self test.....	10
Maintenance.....	11
Programming of lift alarm settings.....	11
End programming.....	11
Accessories.....	12



## Maintenance

The VoicePilot TSA2100 must be function tested and maintained when ever the lift is maintained. This function test includes both the manual self test described on previous page and a test of the 2-way communication which is done as follows:

- 1: Press the emergency button until you hear the lift alarm dialling.
- 2: When the rescue service answers, check the 2 way communication.
- 3: Check that the rescue service is ending the call correct (the VoicePilot TSA2100 hangs up).

Make sure that that the backup battery or other emergency power is in working order.

If a PowerSupply TPS10 from ABP TeleTech A/S is used, the internal backup battery must be replaced before the date stated on the yellow label on the PowerSupply TPS10 (please refer to the PowerSupply TPS10 manual).

### Programming of lift alarm settings

Pickup delay: \* 6 T #  
(T = 1 - 9 rings, 0 = disabled, Default = 1)

Access code: \* 9 <access code> #

Delay before alarm call, Emergency push button in lift car: \* \* 1 \* T #  
(T = 1 - 99 seconds, 0 = disabled, Default = 5)

Delay for local telephone/motor room handset: \* \* 7 \* T #  
(T = 1 - 99 seconds, 0 = disabled, Default = 0)

Audio output level: \* \* \* 0 N # (N = 1 - 4, Default = 3, Maximum = 4)

### End programming

End programming: \* #  
End programming with check call to last programmed telephone number: \* \* #

## Manual self test

When a manual self test is performed you must first ensure that the alarm input are in the required normal state (normally open/normally closed). Then press the Reset button (see figure 3) until you hear 1 beep.

The VoicePilot TSA2100 will then test the acoustic system by sending out 3 short tones from the loud speaker, that must be registered by the microphone. If this fails (for instance due to a defective microphone) you will hear one long tone instead of 3 short tones.

After the acoustic test the VoicePilot TSA2100 “reads” all inputs (normally open/normally closed) and register this as normal/standby state.

## Automatic self test

According to EN 81-28 the lift alarm must perform a check call at least every 72 hours. In connection with this check call the VoicePilot TSA2100 perform an acoustic test (if you wish to disable this test please refer to the technical manual, contact your local distributor or contact support@abp-teletech.com).

During the acoustic test the VoicePilot TSA2100 will send out 3 short tones which must be registered by the microphone, if the test fails one long tone will be heard instead.

If the acoustic test fails the VoicePilot TSA2100 will call the technical alarm number (the 4<sup>th</sup> telephone number). If this call is going to a computer using the TeleTech+ protocol the failure are registered in clear text.

No matter how the test turned out the VoicePilot TSA2100 will then call the “Check call number” (the 5<sup>th</sup> telephone number) to indicate that both the VoicePilot TSA2100 and the telephone line is working.

## Preface

This guide is intended for the installers of elevator alarms. On the basis of this guide the installer will be able to connect, program and test the elevator alarm.

The installer will also be able to instruct the owner of the elevator in how the elevator alarm is tested and maintained.

This guide is not a complete instruction in all functions and programming possibilities. If you require this information a Technical manual can be obtained on our homepage [www.abp-teletech.com](http://www.abp-teletech.com) or by contacting your local distributor.

## Obligations

In the package you will find a document named Owner of Elevator Document (OED). According to EN 81-28 the installer is obliged to fill in this document and hand it over to the owner of the elevator. Also the installer must give the owner of the elevator instructions in how the elevator alarm is tested and maintained.

## Package contents

Qty:

1 Lift Alarm VoicePilot TSA2100 justAphone

1 Manual

1 Owner of Elevator Document (OED)

## Placing and mounting

The TSA2100 is designed to be placed in the lift car behind the lifts Car Operating Panel (COP). It can be mounted with either screws or Velcro tape.

For installation size please refer to figure 1.

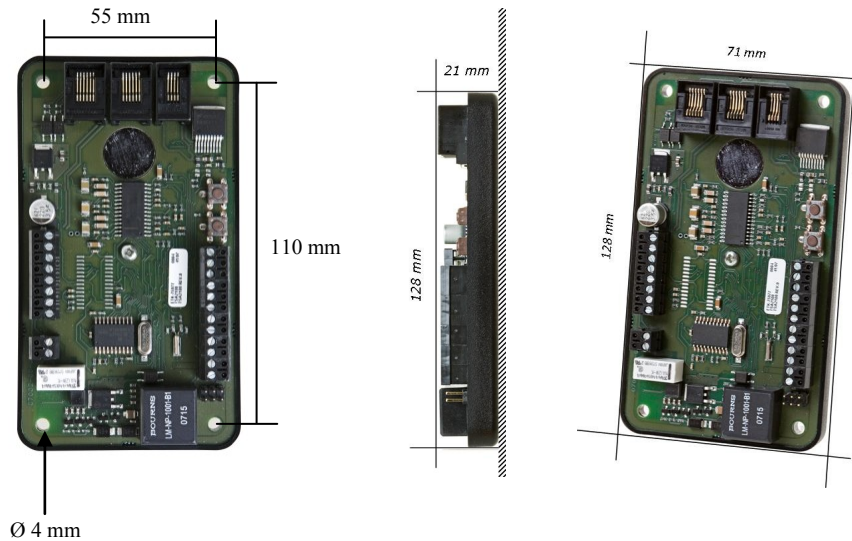


Figure 1: Installation size

## Connections and wiring

Terminals 1 and 2: Power supply 12-30 VDC. Make sure that the power supply have backup in case of a power failure to meet requirements in EN81-28.

Terminals 3 and 4: Emergency pushbutton in lift car. Make sure to keep this input electrical isolated from any sounders (Bell, Siren etc.) or other external power supplies.

Terminals 5 and 6: Motor room handset, to establish communication between motor room and lift car. Can also be used for programming connection (is internally connected to terminals 9 and 10)

You will be able to maintain the two way communication for 180 seconds. 10 seconds before this time limit you will hear a series of beeps. If you within these 10 seconds press “#” you prolong the communication with another 180 seconds.

When you want to end the call you press “\*#” and the VoicePilot TSA2100 hangs up.

If you hang up the telephone without pressing “\*#” or the VoicePilot TSA2100 times out (after 180 seconds) the VoicePilot TSA2100 will register it as a non-acknowledged call and will automatically dial the next programmed alarm number.

## Voice detect

### Programming

Alarm number 1: \*1 <Telephone number>\*\*0#

Alarm number 2: \*2<Telephone number>\*\*0#

Alarm number 3: \*3<Telephone number>\*\*0#

Technical alarm number: \*4<Telephone number>\*\*0#

“Check call number”: \*5<Telephone number>\*\*1# (using “TeleTech+” protocol)

### Receiving calls

When the VoicePilot TSA2100 calls and the alarm receiver answer, the VoicePilot TSA2100 will detect the voice of the person answering and establish two way communication.

The rescue service will have 180 seconds to speak with the trapped passengers before the VoicePilot TSA2100 will hang up. It will warn with a series of beeps 10 seconds before the time limit is reached.

The call can be ended by pressing \*# to have the VoicePilot TSA2100 hang up (if it is possible from the telephone you are using). Alternative just hang up the telephone, the VoicePilot TSA2100 will then detect the engaged tone and hang up.

When the rescue service received the call and started the two way communication the call was also acknowledged so that the VoicePilot TSA2100 will not redial no matter how you end the call.

## TeleTech+ protocol

Please notice that when you use the “TeleTech+” protocol you must program the ID code that you receive from the call centre/alarm receiver software.

### Programming

ID code: \*0<ID code>#

Alarm number 1: \*1 <Telephone number>\*\*1#

Alarm number 2: \*2<Telephone number>\*\*1#

Alarm number 3: \*3<Telephone number>\*\*1#

Technical alarm number: \*4<Telephone number>\*\*1#

“Check call number”: \*5<Telephone number>\*\*1#

### Receiving calls

When the VoicePilot TSA2100 is calling using the “TeleTech+” protocol the alarm call will appear on a computer screen. The person who’s receiving the call must then sign the call using the computer mouse or function keys and can then pick up the telephone and speak with the trapped passengers, while seeing where the lift is located and who to contact for onsite rescue. The call is then ended by clicking on the “End” button using the computer mouse or the function keys.

All technical alarms will be received in clear text and the check calls will be logged or registered/marked as missing if necessary.

## Manual Acknowledge protocol

### Programming

Alarm number 1: \*1<Telephone number>#

Alarm number 2: \*2<Telephone number>#

Alarm number 3: \*3<Telephone number>#

Technical alarm number: \*4<Telephone number>#

“Check call number”: \*5<Telephone number>\*\*1# (using “TeleTech+” protocol)

### Receiving calls

When the VoicePilot TSA2100 calls, the receiver will hear two beeps which will be repeated after a short pause.

To stop the beeps and establish two way communication you must then press the “#” key on the telephone.

Terminals 7 and 8: Telephone line (PSTN)

Terminals 9 and 10: Same as terminals 3 and 4 for easy programming access.

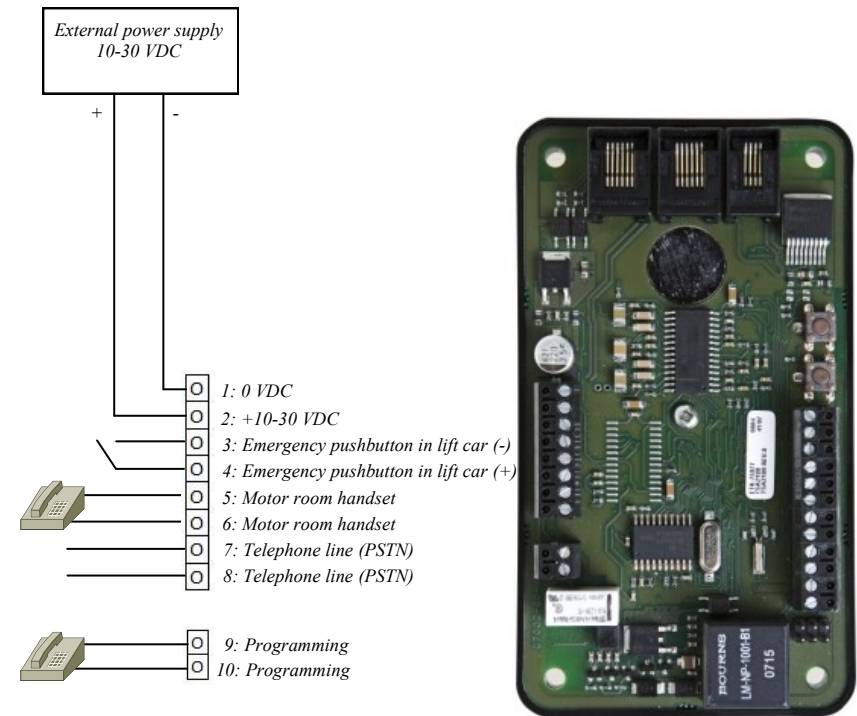


Figure 2: Terminal 1-10

## Master Reset

To perform a Master Reset remove the power supply from the VoicePilot TSA2100. Press and hold the reset button (see figure 3) while reconnecting the power supply, make sure to hold the reset button until the loud beep stops. Please notice that a master reset sets all programming back to factory defaults.



Reset button

Figure 3: Reset button

## Programming

Local programming	Remote programming
<p>Connect a telephone to the programming terminals (9 &amp; 10).            Press and hold the reset button until you hear 3 beeps.            The VoicePilot TSA2100 answers with 2 beeps&lt;break&gt;2 beeps. Press &lt;Access code&gt;# to enter programming mode.            (If no access code is programmed press #)</p>	<p>Call the VoicePilot TSA2100, which will answer with 2 beeps&lt;break&gt;2 beeps.            Press *&lt;Access code&gt;# to enter programming mode.            (If no access code is programmed press * #)</p>

### Minimum programming

Alarm number 1: \*1<Telephone number to alarm receiver>#

Technical Alarm number 4: \*4<telephone number># (if technical alarms are required)

Background call/Check call: \*5<telephone number>\*1# (if Check calls are required, please notice that TeleTech+ protocol must be used)

ID code: \*<ID code># (must be programmed if TeleTech+ protocol are used on any telephone number)

End programming and enter standby press \*#, if you want to end programming with a test call to last programmed telephone number press \*\*# .

## Programming and answering the VoicePilot TSA2100 using protocols

### General information about protocols

You can program the VoicePilot TSA2100 to use different protocols. In the default setting it is at present possible to use “Manual Acknowledge protocol”, “Voice detect” and “TeleTech+” protocols (for more protocols please see the TSA2100 technical manual, contact your local distributor or support@abp-teletech.com).

On the 4<sup>th</sup> telephone number (technical alarm number) you can use any protocol you like as you can with the alarm numbers. However if you’re to have optimum use of it you should program it to call a computer with an alarm receiver software, using the “TeleTech+” protocol.

If you are using either the “Manual Acknowledge protocol” or “Voice detect” protocol you’ll only know there is a technical problem but not what it is. If it’s the same number as the alarm calls the call might even be recognised as a false alarm.

On the 5<sup>th</sup> telephone number (Check call number) you must use the “TeleTech+” protocol.

Please notice that you can mix the protocols in a call sequence (For instance you can use “Manual Acknowledge protocol” on the first and third alarm number and “Voice detect” on the second alarm number).

During an alarm call cycle the VoicePilot TSA2100 will, if not answered or properly acknowledged, call the next programmed telephone number (1-3). The call cycle will, due to legislation be repeated for a maximum of 15 times.