



PSSG2 – CD Touch Microphone Console

User Manual

PSSG2-CD-T-10UMS01-V01R01

DELIVERING Your MESSAGE

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1. Welcome:



Thank you for choosing ATEİS PSSG2. We (at ATEİS) hope you will enjoy using this exciting piece of technology as much as we enjoy developing and building it.

This Help file Manual version is: Ver: PSSG2-10UMS01-V01R01.

This manual is intended to provide users the necessary understanding to safely uses PSSG2 system as well as guide users through all configuration procedures.

This manual can be updated at any time without prior notice in order to keep this manual up to date.

In case of errors in this manual or not clear process description, feel free to submit us mistakes, suggestions or questions by sending an [email](#).

This document intends to be a complete manual and ATEIS hopes that this Help file manual will provide you all information or answers needed. However if you have any questions, feel free to contact us.

1.1. Ateis Presentation

With more than twenty years of experience, ATEİS has quickly established itself as a leading manufacturer of Public Address, Voice Alarm systems and counter intercoms. The constant growth of market share in Europe provides confirmation of the quality of ATEİS's commercial and technical approach.

Products:

The company now offers a full range of sound equipment: microphones, preamplifiers, digital processors, digital audio matrixes, loud-speaker monitoring systems, amplifiers, etc. ATEİS designs and manufactures leading products in the voice alarm systems market which have been certified EN60849 compliant by the TÜV.

Development:

Thanks to a development team that includes thirty engineers, and to constant investment, we are able to respond rapidly to the demands of our various markets with specific solutions and cutting edge technology. We have distributors in more than fifteen countries in Europe and the Middle East, with whom we have carried out major projects. In choosing ATEİS, you are guaranteed a trustworthy partner that can be counted on for the long term.

ATEİS Field:

ATEİS's audio systems have been installed in the following markets:

- Railways
- Subways
- Airports

- High raise buildings
- Hotels
- Restaurants
- Shopping malls
- Theme parks
- Places of worship
- Stadia.
- Museums.
- Industrial buildings
- Industrial plants
- Commercial buildings

2. EC Declaration of Conformity

Documentation CE marking. This needs to be added to each commercial/technical document



###

EC DECLARATION OF CONFORMITY

Ateis, as manufacturer having sole responsibility, hereby declares that our delivered version of the following product complies with the applicable directives. In case of alterations of the product, not agreed upon by Ateis, this declaration is no longer valid.

EN54-16:2008

Voice Alarm Control and Indicating Equipment (VACIE)

Product: **DIVA8 System VACIE**

Certified options:

Audible warning

Manual reset of the voice alarm condition

Voice alarm condition output

Indication of faults related to the transmission path of the CIE

Indication of faults related to voice alarm zones

Voice alarm manual control

Interface to external control device(s)

Emergency microphones

Redundant amplifiers

Ancillary functions:

Commercial paging

Background music distribution

Certification Body:

Intertek commercial and electrical
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Voice Alarm Control and Indicating Equipment (VACIE)

Product: **IDA8 System VACIE**

Certified options:

Audible warning
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Commercial paging
Background music distribution
Audio and data networking

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- Audible warning
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- Indication of faults related to voice alarm zones
- Voice alarm manual control
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- Emergency microphones
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Ancillary functions:

- Commercial paging
- Background music distribution
- Audio and data networking

4. PSSG2, CD-TOUCH System Presentation



The PSSG2, CD-TOUCH paging microphone console is a man-machine interface which allows paging call, messages broadcasting and DSP matrix parameter control. DIVA8G2T can handle one PSSG2, CD-TOUCH unit connected to a secured bus. Its back-lit touch screen is designed for simple and user-friendly operating. Various operating levels with password protection make the PSSG2, CD-TOUCH a versatile device that fits well in a commercial shopping center as for an industrial high security environment.

All paging parameters needed for site operating can be programmed: zones assigned to the different buttons, name of zones, group of zones, messages triggering, levels adjustments and pre-call chime but also for fader control, button control or event control.

A total of twelve keys on fourteen pages allow zone or group of zones selections. Each key contains a color changing field indicating that the zone is occupied by a different process.

CD-Touch offers restricted access thanks to the secured key locker. It includes a red fist microphone with contact instead of a gooseneck microphone.

PSSG2, CD-Touch series

PSSG2, CD-TOUCH can be used with IDA4 series, IDA8 series and DIVA8 series. The key configurations and/or key possibilities depend on which products the PSSG2, CD-TOUCH is connected to. To learn more please refer to the following manuals:

- DIVA8 system: DIVA8MG2-M/S-10TSS01-V01R01
- IDA8 system: IDA8C/S(AB)-10UMS01-V01R01
- IDA4 system: User manual ES IDA4XM V2.x.pdf and IDA4SW User Manual 1.2.pdf

5. Hardware Presentation

General Information:

- 5" TFT full colour touch-screen
- 3 LED indicators: Power/General Fault/Evacuation active
- 3 key-buttons: User definable using Ateis Studio GUI
- 168 Touch fields: 14 pages with 12 keys , for PSSG2, CD-TOUCH & PSS-G2E
- 16 Touch fields for PSSG2 -16
- Console size: (L x W x D) 250 x 140 x 80 mm
- Microphone flex length: 280 mm
- Weight: 1098 g - Colour: RAL 7016
- Front tilted at 30°
- Material: metal back, PVC top and sides

Top View:



- **Power LED:** Indicates the power status of the PSSG2, CD-TOUCH
- **Fault LED:** Indicates the presence of a fault on the system the PSSG2, CD-TOUCH is linked to.
- **EVAC LED:** Indicates the presence of a evacuation state on the system the PSSG2, CD-TOUCH is linked to.
- **Microphone:** Flexible electrets microphone.

- **Monitoring Speaker:** VACIE audio streams monitoring loudspeaker.
- **Hardware Button 1:** Activates the jack microphone input bypass mode or can be configured through software depending on which system it is connected to CD-Touch: Can be configured through software depending on which system it is connected to.
- **Hardware Button 2:** Can be configured through software depending on which system it is connected to.
- **Hardware Button 3:** Activates the screen calibration process or can be configured through software depending on which system it is connected to.
- **Color Touch Screen:** Displays the PSSG2, CD-TOUCH graphical user interface.

Rear View:



- **RJ45 Connector:** Allows the connection to the matrix through a shielded CAT5 cable.

Left View:



- **Jack Audio Input:** External microphone 1/8 inch jack input.
- **Jack Audio Output:** External loudspeaker 1/8 inch jack output.
- **Telephone Input:** Allows the connection of a telephone type microphone.

CD-Touch microphone does not offer jack input and output as well as telephone connector.

6. LED Indicators

The PSSG2, CD-TOUCH has different main LED indicators to show different status of the CD16 and VACIE system: Power, Fault and Evac states.

In order to check for the LEDs condition, every 35 seconds both Fault and Evac blinked once.

Power LED: indicates the presence of power on the PSSG2, CD-TOUCH.

Fault LED: the fault LED is permanently lit if a fault state in the VACIE system has been engaged.

Evac LED: the Evac LED is permanently lit if a evacuation state in the VACIE system has been engaged.

7. Common and Default Control Keys and indicators

As the PSSG2, CD-TOUCH can be connected to different VACIE system like IDA4, IDA8 and DIVA8, keys configuration and possibilities depend on the VACIE system used.

In order to know all the configuration possibilities, please read IDA4, IDA8 and DIVA8 user manuals.

However, the PSSG2, CD-TOUCH has common keys that are by default displayed in green and several on screen indicators.

The following picture shows the common control keys and indicators.



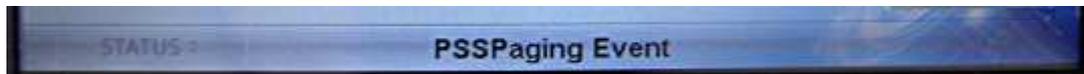
Control Keys:

- **CHIME:** if the PSS has been set to use a pre-chime and/or post chime, one have to press this key to start a call with chime.

- **TALK:** engages the call. The press to talk mode or lock to talk is configuration and system dependant. For CD-Touch microphone the call is engaged when the fist microphone contact is closed.
- **RESET:** instantaneously resets the active zone selection.
- **MESSAGE:** allows the access to the message start page.
- **PREV-PAGE:** allows the display of the previous page in the configuration.
- **NEXT-PAGE:** allows the display of the next page in the configuration.
- **CONFIG:** allows the access to the PSSG2, CD-TOUCH hardware configuration page.

Indicators:

- **SEL:** lights up when a zone is selected (active selection).
- **PRIO:** Lights up when a zone key is selected in which a higher priority broadcasting is happening. This indicator informs the user that the occurring call will be cut/not started.
- **PAGE:** indicates the currently displayed page number.
- **STATUS:** displays in plain text the actions, faults, evacuation occurring in the system, see picture below.

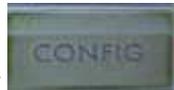


8. Configuration

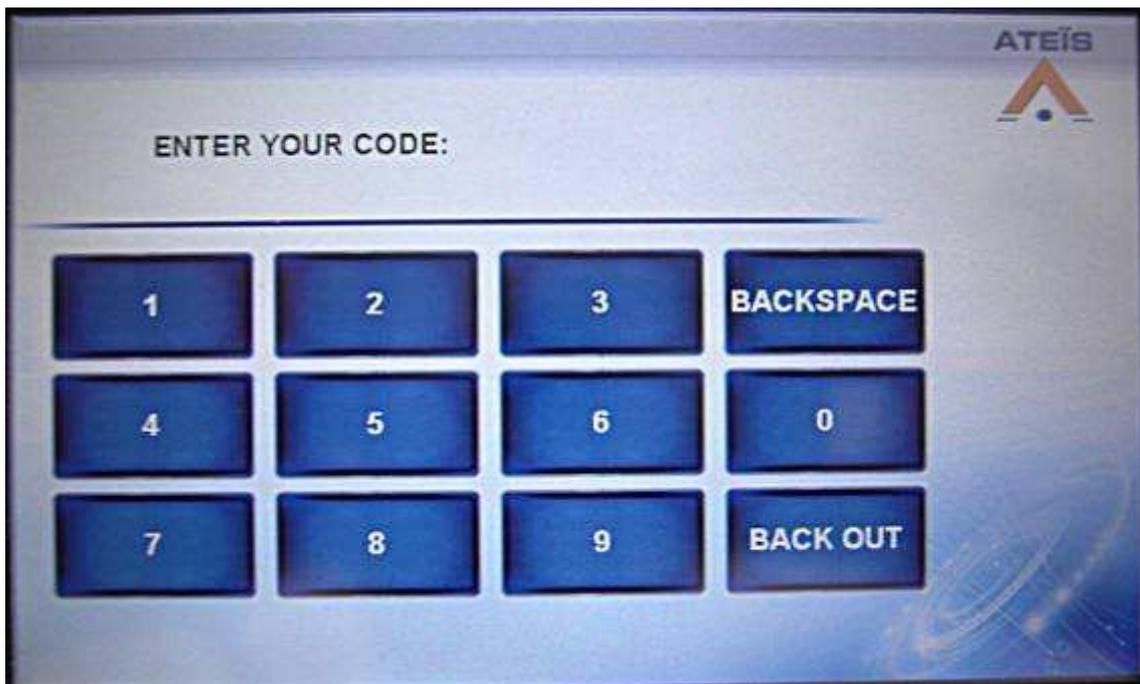
The PSSG2, CD-TOUCH offers the possibility to adjust hardware settings and audio parameters through a dedicated configuration page.

The configuration page is password protected. The password is **0117** and cannot be changed.

In order to access the configuration page, please follow the next steps:



- Click on the CONFIG key
- Enter the configuration access code with the keyboard, see below.



- Once the correct code is entered, you will be automatically redirected to the configuration page.
- To delete on digit, press on the BACKSPACE key.
- To exit the access code window, press the BACK OUT key.

8.1. General options

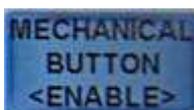
In the configuration page, several general options are available, see the next picture of the complete configuration page.



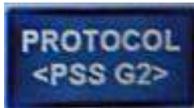
- **RETURN:** exit the configuration page.
- **PSS G2 V014:** displays the firmware version of the PSSG2, CD-TOUCH.
- **SAVE CONFIG:** once pressed, the on screen configuration will permanently saved in the PSSG2, CD-TOUCH.



- Pressing the JACKOUT key allows user to activate or deactivate the PSSG2, CD-TOUCH jack output. **Not available on CD-Touch.**



- The three hardware buttons can be enabled or disabled by pressing the MECHANICAL BUTTON key.



- As briefly stated before, the PSSG2, CD-TOUCH security microphone consol can work with older system like IDA4 matrixes. In that particular case, the PSSG2, CD-TOUCH should use a different protocol (PSSG1). This key allows the activation of either the PSSG2, CD-TOUCH protocol or the PSSG1 protocol.

8.2. Audio Input and Output settings

The PSSG2, CD-TOUCH configuration window offers different settings for the PSSG2 audio input and audio output.

The different audio input modes are:

- Microphone input.
- Jack Input.
- Telephone mode through the telephone connector.

8.2.1. Microphone Input settings:

The PSSG2, CD-TOUCH offers two different microphone audio settings: microphone gain and noise gate threshold, see below:



The microphone gain can be adjusted using the GAIN + and GAIN – keys. The current gain setting is displayed in dB between the two gain adjustment keys, see picture below.



The noise gate threshold setting is handy to avoid feedback and adjusting the speaking distance. The gate threshold can be adjusted via the NOISE GATE THRESHOLD + and NOISE GATE THRESHOLD – keys. The current gate threshold is displayed in dB between the two threshold adjustment keys.



Increasing the threshold will reduce the speaking distance but will help to avoid feedback as well as background noise picking.

Decreasing the threshold will make the microphone more sensible to feedback and will increase speaking distance.

8.2.2. Jack Input: (Not available on CD-Touch)

The jack input is automatically activated or deactivate as soon as a jack connector is inserted. The following settings are available for the jack input.



The jack input gain can be adjusted using the GAIN + and GAIN – keys. The current gain setting is displayed in dB between the two gain adjustment keys, see picture below.



The noise gate threshold setting is handy to avoid feedback and adjusting the speaking distance. The gate threshold can be adjusted via the NOISE GATE THRESHOLD + and NOISE GATE THRESHOLD – keys. The current gate threshold is displayed in dB between the two threshold adjustment keys.



Increasing the threshold will reduce the speaking distance but will help to avoid feedback as well as background noise picking.

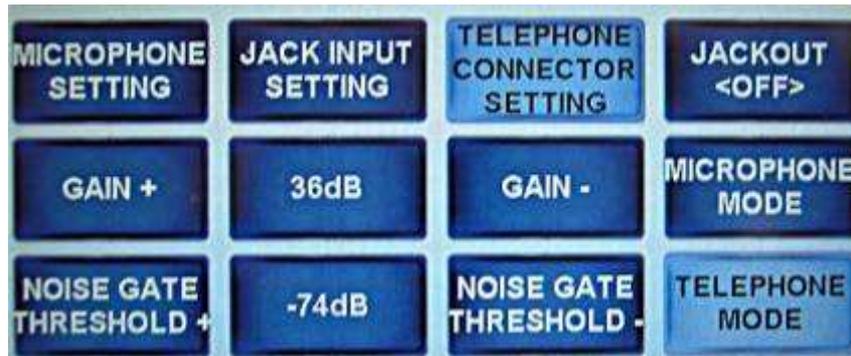
Decreasing the threshold will make the microphone more sensible to feedback and will increase speaking distance.

8.2.3. Telephone mode: (Not available on CD-Touch)



The telephone mode is manually activated via the TELEPHONE MODE key, in order to avoid any fault on the VACIE system, make sure a telephone handset is connected before activating the telephone mode.

In telephone mode, the following audio settings are available.



The telephone audio input gain can be adjusted using the GAIN + and GAIN – keys. The current gain setting is displayed in dB between the two gain adjustment keys, see picture below.



The noise gate threshold setting is handy to avoid feedback and adjusting the speaking distance. The gate threshold can be adjusted via the NOISE GATE THRESHOLD + and NOISE GATE THRESHOLD – keys. The current gate threshold is displayed in dB between the two threshold adjustment keys.



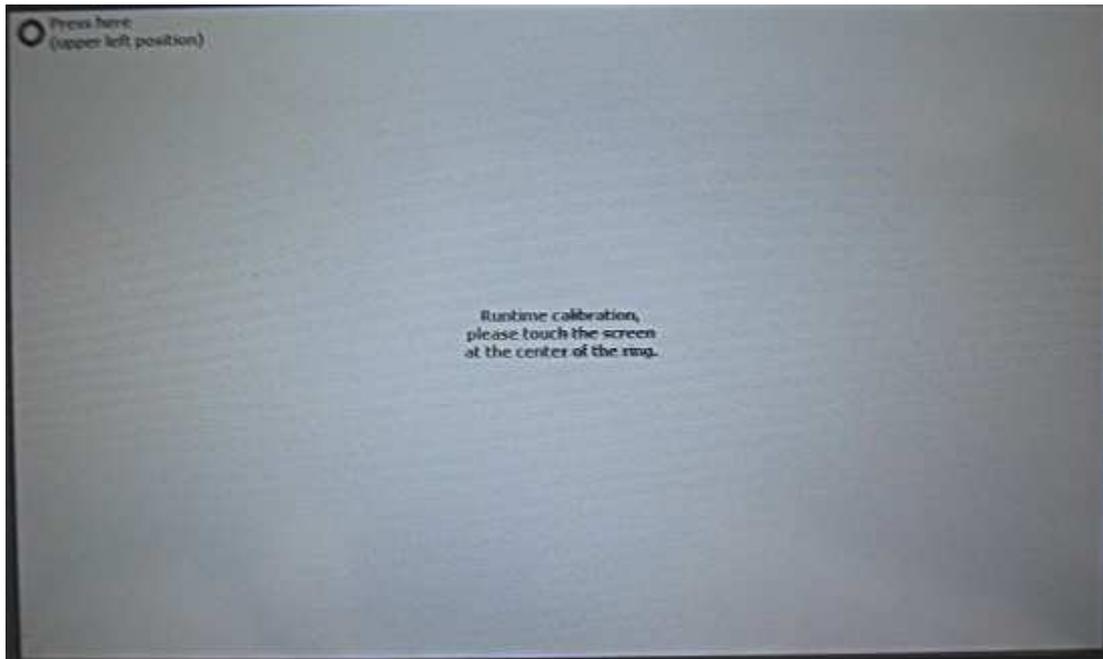
Increasing the threshold will reduce the speaking distance but will help to avoid feedback as well as background noise picking.

Decreasing the threshold will make the microphone more sensible to feedback and will increase speaking distance.

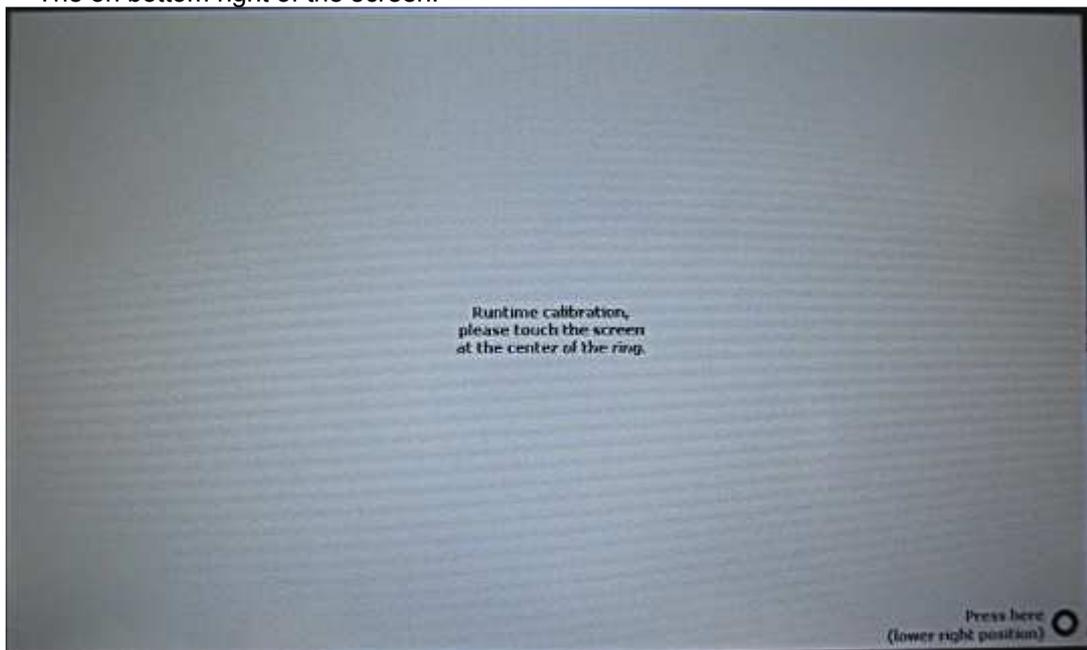
8.3. Screen calibration

The PSSG2, CD-TOUCH give the user the possibility to calibrate the screen. In order to do so, follow the next steps.

- Press on the Hardware button 3.
- The PSSG2, CD-TOUCH reboot
- After rebooting, you will be asked to touch the screen in the center of the ring, see below.
- First on top left of the screen.



- The on bottom right of the screen.

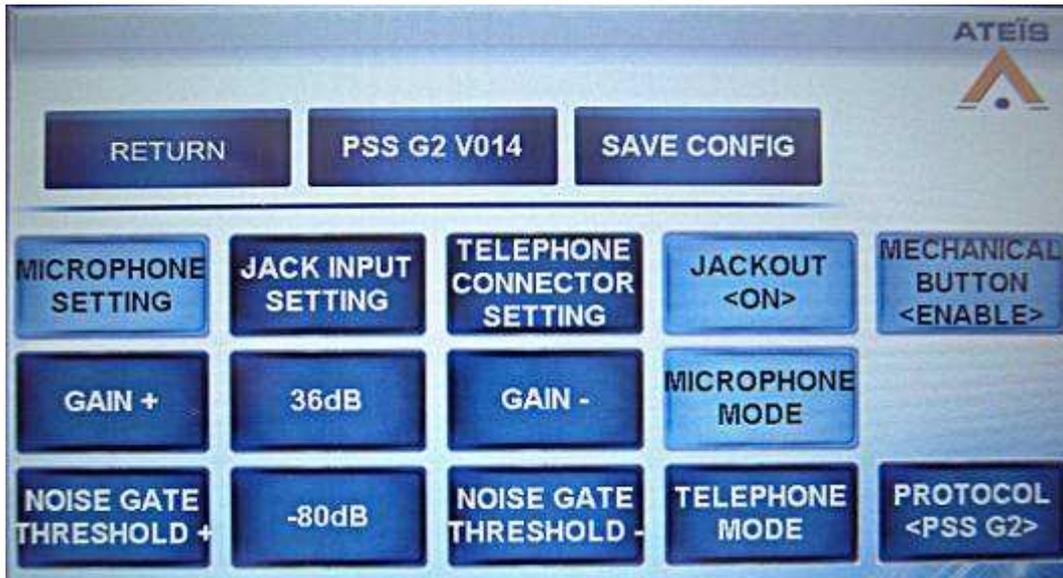


- This will end the calibration process. The main configuration page will be automatically displayed.

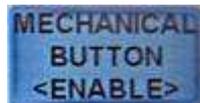
8.4. Mechanical Buttons

In the PSSG2, CD-TOUCH configuration page, you have the possibility to enable or disable the three mechanical buttons. In order to do so, follow the next steps.

- Access the config page.



- Press on the MECHANICAL BUTTON key. The key work as a toggle button between ENABLE and DISABLE states. The current status is displayed right under the key's name.



9. Working with the VACIE System

As stated previously, the key configurations and possibilities depend on the VACIE system connected to the PSSG2, CD-TOUCH. However some operations are common to all system.

Note: all selection keys are highlighted in light blue when active.

9.1. Busy zone indication

When a system zone is occupied by an audio broadcasting, the corresponding PSSG2, CD-TOUCH zone key is signalized as busy.

The busy indication is displayed in plain text within the key itself.

9.2. Starting a microphone call

In order to start a call in a zone or group of zone, follow the next steps.

Start a call without chime:

- Press on the zone(s) key



- Press the TALK key (Close fist microphone contact for CD-16)
- The TALK key will be red highlighted to indicate that the call is active.



- **In Press To Talk Mode:** press and keep your finger on the TALK key. (CD-Touch: keep the contact closed)
- **In Lock To Talk Mode:** press once on the TALK key. (CD-Touch: apply one contact closure)
- To stop the call:
 - **In Press To Talk Mode:** release your finger from the TALK key. (CD-Touch: release the contact)
 - **In Lock To Talk Mode:** press once on the TALK key. (CD-Touch: apply one contact closure)

Start a call with a pre-chime or post chime:

- Press on the zone(s) key



- Press the CHIME key. The chime key will be blinking during the chime broadcasting. The Microphone key will be automatically activated after the chime broadcasting.
 - **In Press To Talk Mode:** press and keep your finger on the CHIME key. (CD-Touch: keep the contact closed)
 - **In Lock To Talk Mode:** press once on the CHIME key. (CD-Touch: apply one contact closure)
- The TALK key will be red highlighted to indicate that the call is active.



- To stop the key:
 - **In Press To Talk Mode:** release your finger from the CHIME key. (CD-Touch: release the contact)
 - **In Lock To Talk Mode:** press once on the CHIME or TALK key. (CD-Touch: apply one contact closure)

9.3. Starting a message

The number of messages available depends on the VACIE system connected to the PSSG2, CD-TOUCH microphone. However, the way to start a message is identical.

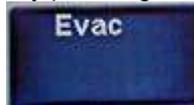
- Press on the zone(s) key in which you want to start the message



- Press on the MESSAGE Key
- The Message page is displayed, see below.



- Select the message you want to start by pressing the corresponding key.



- Press the START key.
- The message is now broadcasted in the selected zone(s).
- To stop the message broadcasting, press on the STOP key. The START and STOP key are displayed on the same location. The START or STOP messages are displayed in a toggle manner depending the status of the message broadcasting, see picture below.



- To return to the PSSG2, CD-TOUCH main page, press the RETURN Key.

9.4. Scrolling through pages

The PSSG2, CD-TOUCH allows the quick navigation between different pages in the configuration. Depending the VACIE system connected to, a jump to page key can be implemented in the configuration.

- To go on the previous page in the configuration, press the PREV_PAGE key.



- To go on the next page in the configuration, press the NEXT_PAGE key.



The current page number can be seen under the PAGE indicator.

9.5. Adjusting the talking distance

The PSSG2, CD-TOUCH offers an indicator that help keeping the microphone speaking distance correct, see below.



During a call, a square cursor is displayed below the ((OK)) indicator. The middle position indicates a good speaking distance when a left position indicates a too far speaking distance and a right position a too close speaking distance.

9.6. Monitoring speaker

The audio that is routed to the PSSG2, CD-TOUCH monitoring speaker depends on the VACIE configuration. Please refer to the VACIE user manual to learn more about how to route audio on the PSSG2, CD-TOUCH speaker.

The monitoring speaker level can be adjusted trough the VACIE configuration software.

10. PSSG2, CD-TOUCH connections

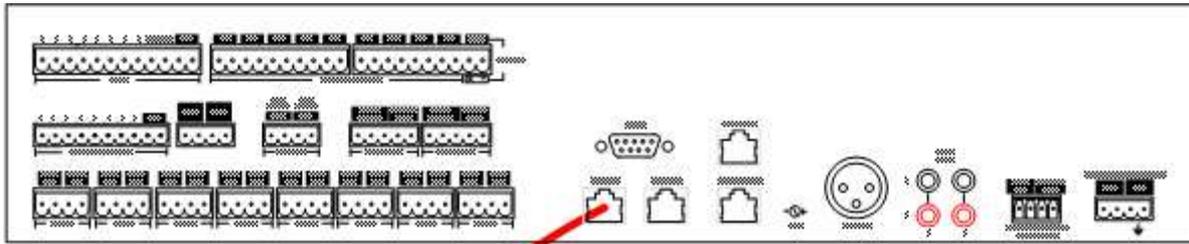
In this chapter you will learn how to connect a PSSG2, CD-TOUCH microphone to a VACIE system as well as how to connect external microphone, external speaker and telephone handset.

10.1. RS485 through CAT5

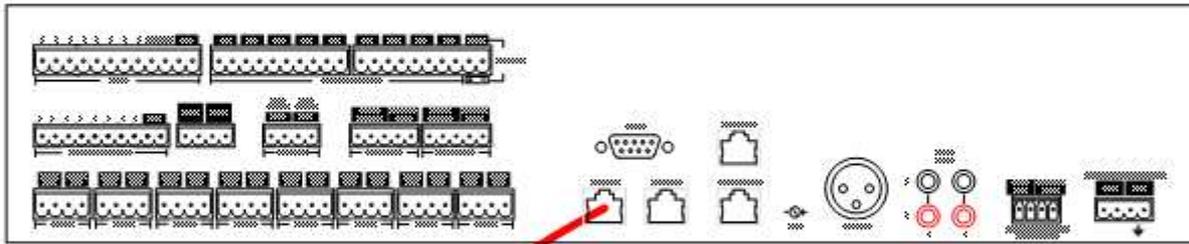
The PSSG2, CD-TOUCH uses RS485 protocol over shielded CAT5 to transport data from the PSS microphone to the VACIE.

The theoretical maximum distance for RS485 is 1000 meters. However, as the PSSG2, CD-TOUCH is powered via the VACIE system a maximum of 200 meters is recommended.

10.1.1. PSSG2, CD-TOUCH on DIVA8



Shielded 4 pairs CAT5



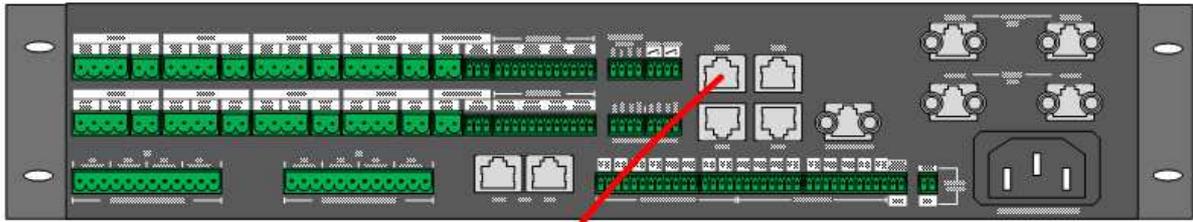
Shielded 4 pairs CAT5



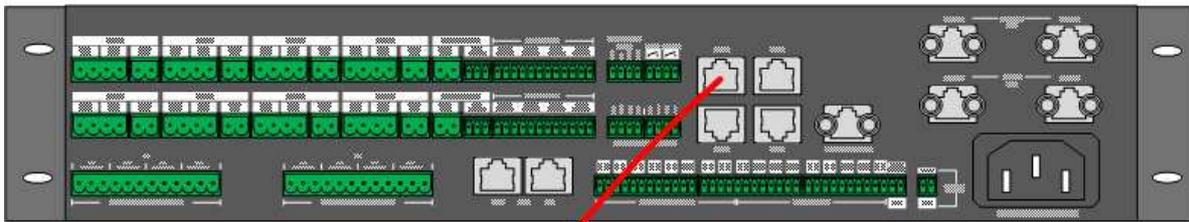
10.1.2. PSSG2, CD-TOUCH on IDA8

Up to 4 PSSG2, CD-TOUCH can be connected to an IDA8C or IDA8S.

PSSG2, CD-Touch series



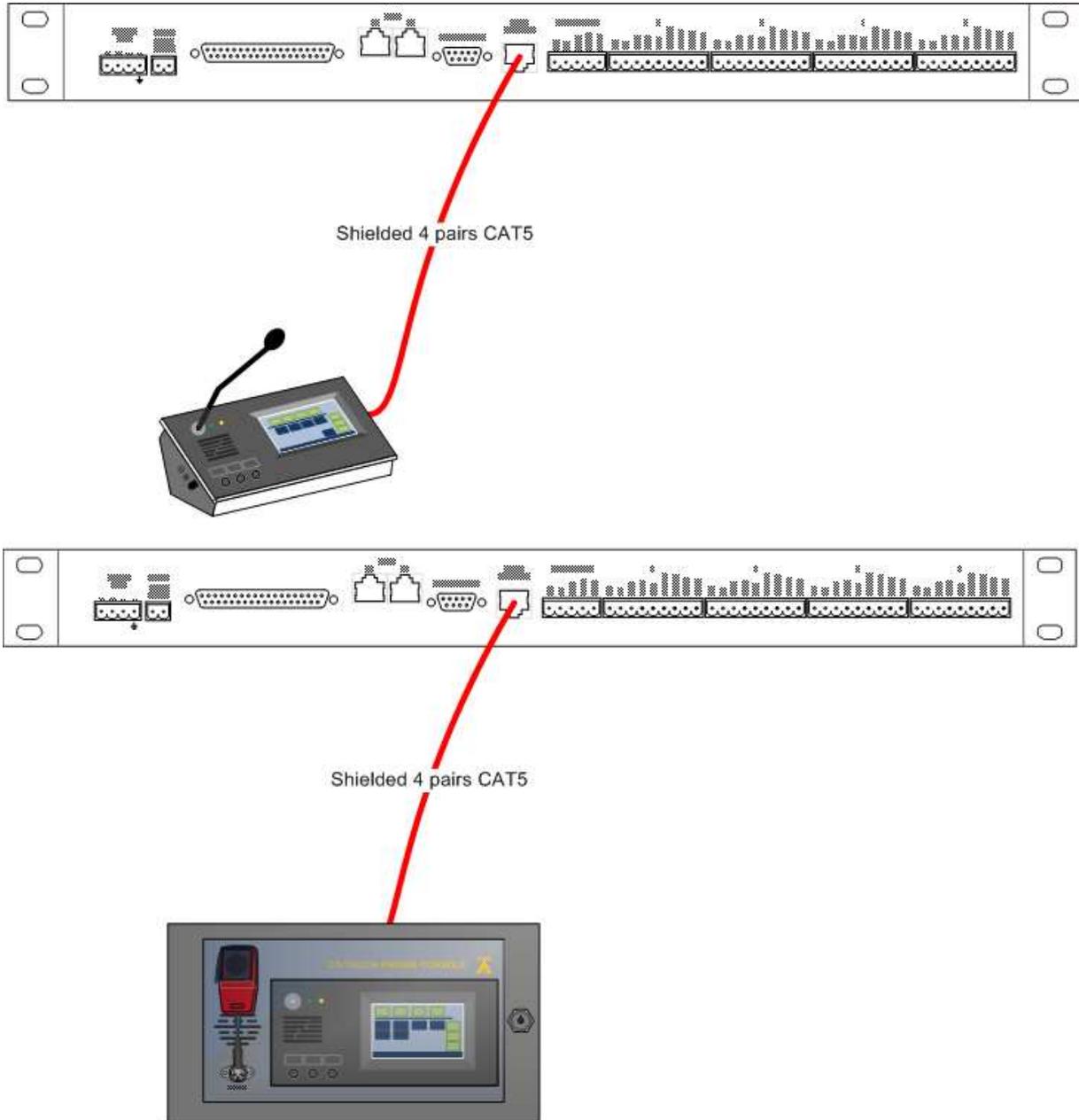
Shielded 4 pairs CAT5



Shielded 4 pairs CAT5



10.1.3. PSSG2, CD-TOUCH on IDA4



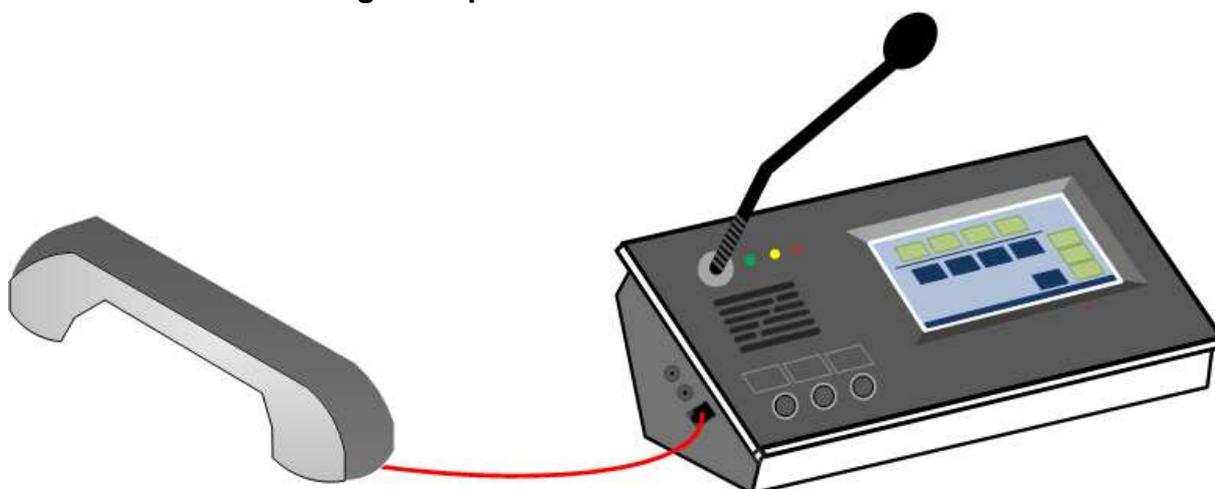
10.2. Connecting an external microphone



10.3. Connecting an external headphones



10.4. Connecting a telephone handset



11. PSSG2, CD-TOUCH troubleshooting guide

The PSSG2, CD-TOUCH microphone is constantly monitored through the VACIE system. Fault indication and messages could vary depending on the VACIE system. For more information about PSSG2, CD-TOUCH fault, please read IDA4, IDA8 and DIVA8 user manuals.

11.1. PSSG2, CD-TOUCH can't boot

- Make sure the CAT5 cable is correctly connected.
- Make sure the PSSG2, CD-TOUCH power LED is lit.
- If no power or if the PSS still doesn't boot, please contact your ATEIS dealer.

11.2. Noise in the speaker

If digital noise can be heard in the PSSG2, CD-TOUCH monitoring speaker:

- Verify that the CAT5 cable is from the correct type.
- Verify the CAT5 cable condition.
- If nothing helps, please contact your ATEIS dealer.

11.3. PSSG2, CD-TOUCH is powered ON but no key configuration is visible

- Verify that the PSSG2, CD-TOUCH microphone console is activated in the VACIE software configuration.
- If nothing helps, please contact your ATEIS dealer.

11.4. PSSG2, CD-TOUCH display is blocked

- Disconnect and reconnect the CAT5 cable or disconnect and reconnect the external power supply.
- If nothing helps, please contact your ATEIS dealer.

11.5. PSSG2, CD-TOUCH is connected to VACIE but there is a connection fault state

- Verify that the PSSG2, CD-TOUCH microphone console is activated in the VACIE software configuration.
- Verify the CAT5 cable condition.
- Make sure the CAT5 cable is correctly connected.
- If nothing helps, please contact your ATEIS dealer.

12. Safety Declaration



Warning

This sign indicates a potentially hazardous situation that can result in death or serious personal injury.

- Do not expose the PSSG2 to extreme temperatures, direct sunlight, humidity, or dust, which could cause fire or electrical shock hazard.
- Keep away water or other liquids from the PSSG2. Otherwise fire or electrical shock may result.
- In case of using external power supply, connect the PSSG2 only to an 24 VDC outlet of the type stated in this Owner's Manual. Otherwise fire and electrical shock hazard results.
- When disconnecting the power cord from an AC outlet always grab the plug. Never pull the cord. A damaged power cord is a potential risk of fire and electrical shock hazard.
- Avoid touching power plugs with wet hands. Doing so is a potential electrical shock hazard.
- Take care for correct polarity when operating the PSSG2 from a DC power source. Reversed polarity may cause damage to the unit or the batteries.
- Avoid placing heavy objects on power cords. A damaged power cord is a fire and electrical shock hazard.
- Do not cut, scratch, bend, twist, pull, or heat the power cord. A damaged power cord is a fire and electrical shock hazard. Ask your ATEİS dealer for replacement.
- Turn off immediately the unit, remove the power cord from the AC outlet and consult your ATEİS dealer in any of the following circumstances:
 - Smoke, odor, or noise getting out of the unit.
 - Foreign objects or liquids get inside the PSSG2.
 - The unit has been dropped or the shell is damaged.
 - The power cord is damaged.
If you continue using the PSSG2, fire and electrical shock may result.
- Do not drop or insert metallic objects or flammable materials into the unit as this may result in fire and electrical shock.
- Do not remove the PSSG2's cover, as there are exposed parts inside carrying high voltages that may cause an electrical shock. Contact your ATEİS dealer if internal inspection, maintenance, or repair is necessary.
- Do not try to make any modifications to the PSSG2. This is a potential fire and electrical shock hazard.



Caution

This sign indicates a potentially hazardous situation that can result in moderate or minor personal injury and/or property damage.

PSSG2, CD-Touch series

- To prevent the unit from falling down and causing personal injury and/or property damage, avoid installing or mounting the unit in unstable locations.
- Operate the PSSG2 in an environment with a free-air temperature of between 0 °C and 40 °C (32 °F and 104 °F).
- Do not use benzene, thinner, or chemicals to clean the PSSG2. Use only a soft, dry cloth.
- If the PSSG2 is moved from a cold place (e.g., overnight in a car) to a warmer environment, condensation may form inside the unit, which may affect performance. Allow the PSSG2 to acclimatize for about one hour before use.

13. International sales and service points



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