

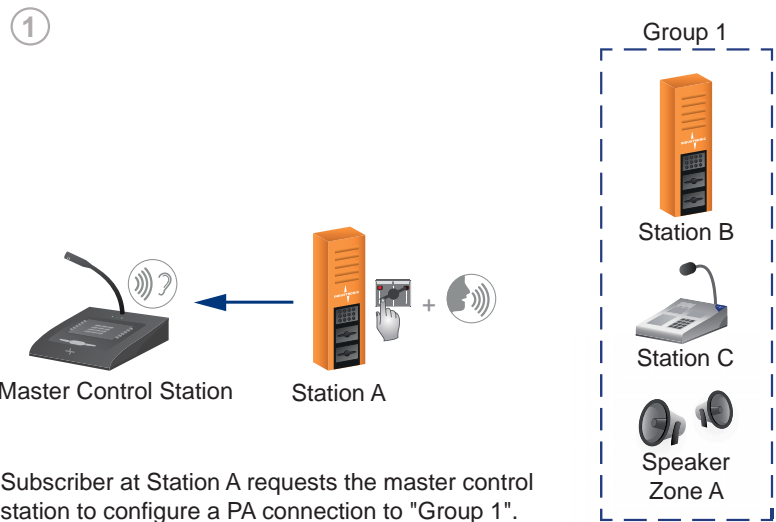
PA SWITCHBOARD CALL

IN A NUTSHELL

Via a master control station, a temporary PA connection to a group of members (targets) is configured for one subscriber. This way, a subscriber can make an announcement to a specific group to which he is otherwise not able to establish a direct connection himself.

A PA connection can be a group call, an all call or an announcement made to a specific speaker zone. Members and targets can be acoustic output devices of any type (e.g. speakers, intercom stations, etc.), audio interfaces, SIP subscribers and/or radio subscribers.

ILLUSTRATION



②
Operator at master control station configures a PA connection as follows:

1 **Switchboard PA**

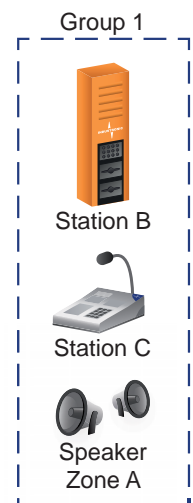
He presses the "Switchboard PA" key.

2 **Station A Group 1**

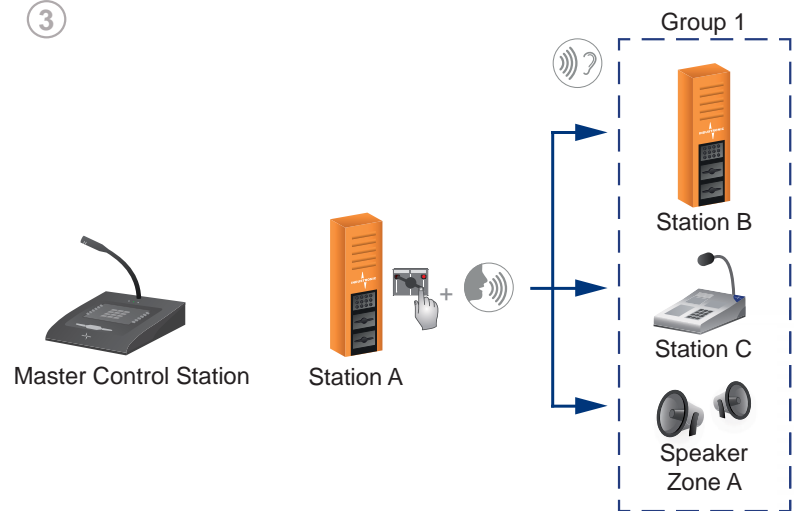
He presses the "Station A" and "Group 1" keys.

3 **Switchboard PA**

Then, he presses the "Switchboard PA" key again.



3



A temporary PA connection is configured. Subscriber at Station A presses the switchboard speak key, keeps it pressed and makes an announcement.

DESCRIPTION

The subscriber at Station A speaks to the subscriber at the master control station and requests a PA connection to Group 1. The operator of the master control station presses the PA switchboard key first to configure a temporary connection. Then, the operator selects Station A first and then Group 1 by pressing the corresponding keys. Finally, he presses the PA switchboard key again. The temporary PA connection is now configured, but not established yet.


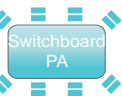
A short acoustic signal is played back at Station A and the temporary direct key especially defined for temporary connections is activated (switchboard speak key). To establish the PA connection, the operator at Station A now presses this switchboard speak key, keeps it pressed and speaks into the microphone (Push-to-Talk). All members contained in Group 1 listen to the announcement simultaneously.

The illustration shows Group 1 which consists of Station B and Station C as well as Speaker Zone A.

The temporary PA connection is automatically deleted if the switchboard speak key at Station A is no longer pressed within a specified time (e.g. 10 s). The switchboard speak key is then without function.

SIGNALING AT MASTER INTERCOM STATION

LEDs at the keys indicating the different connection states are helpful for the operator personnel. The following illustrations show the default signaling types at a master control station using the example of an IP desktop intercom station from INDUSTRONIC with display buttons.

Signaling	Description
	Switchboard key is off. Mode to configure the temporary PA connection is not active. Subscribers cannot be selected.
	Switchboard key blinks at a frequency of 250:250 (250 ms on / 250 ms off). Mode to configure the temporary PA connection is active. Subscribers can now be selected.



Selection key is off.

Subscriber for temporary PA connection is not selected.



Selection key is illuminated.

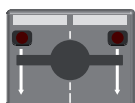
Subscriber for temporary PA connection is selected. Pressing the key again removes the subscriber from the selection.

SIGNALING AT PARTICIPATING INTERCOM STATIONS (SWITCHBOARD SPEAK KEY)

The following illustrations show the signaling at intercom stations participating in a switchboard connection using the example of momentary rocker switches which are installed in outdoor intercom stations from INDUSTRONIC.

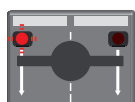
Signaling

Description



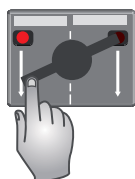
LED is off.

No temporary connection configured. Key has no function.



LED blinks at a frequency of 100:900 (100 ms on / 900 ms off). Corresponding side of the rocker switch is not pressed.

Temporary connection configured. Key can now be used.



LED is illuminated. Corresponding side of the rocker switch is pressed down.

Connection to target established. Operator can speak into the microphone. (Ready-to-talk signaling)

APPLICATION EXAMPLES

The PA switchboard call is often used to configure temporary PA connections to a specific group for a subscriber who cannot establish direct voice connections to a group himself. An intercom station in a control room is often deployed as centralized master control station which coordinates and configures the connections requested.

CUSTOMER BENEFITS

- Any subscriber can make an announcement to a pre-defined group or zone at any time
- A centralized master control station, which has a coordinating role, configures voice connections and thus authorizes subscribers to make announcements
- Easy coordination of voice announcements
- Compact and easy-to-use intercom stations can be deployed as they only require one direct call key to the master control station and one speak key to communicate (switchboard speak key)

OPTIONS

Priorities

You can also assign an individual priority for a temporary PA connection configured by the master control station. This means that an active connection overrides functions with the same or lower priority. The connection can only be interrupted by a voice connection or function with higher priority.

Dial Keypad

PA connections can also be configured by using a dial keypad. For each individual subscriber the operator enters the call number first and then presses the * key. Only after pressing the * key, the subscriber is selected. A dial keypad is often used when a master control station has only a few keys available or when these keys are already assigned to other functions.

TECHNICAL DETAILS

For a PA switchboard call at least one intercom station is required which takes on the role of the centralized master control station (e.g. an intercom station in a control room). This intercom station requires the following keys:

- 1 key to configure the PA connection and to activate the mode for selecting the subscribers (PA switchboard key)
- 1 key for each subscriber or for each group of members who is supposed to participate in the PA switchboard call. If there are already direct call keys configured to reach the subscribers, you can use them.
- Optionally, you can also use a dial keypad to select the subscribers.

A master control station can configure several connections at the same time.

Each intercom station which is used for temporary connections requires 1 special key which is exclusively reserved for these temporary connections and which has no other function (switchboard speak key). As soon as the connection has been successfully configured, the key is temporarily used as direct call key. This means that the connection is established via keypress and the operator can speak to the target (Push-to-Talk).

If the switchboard speak key at Station A is no longer pressed within a specified time (e.g. 10 s), the temporary connection is deleted. The switchboard speak key is then without function.

An intercom station can only control one temporary connection at a time. The master control station, however, can always override an active connection by a new one. In this case, the operator is informed about it by an acoustic tone.

RELATED FUNCTIONS

- Two-way switchboard call
- Duplex switchboard call
- Switchboard call to external telephones
- Conference switchboard call
- Group call
- All call

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