

MULTICONTROL GROUP

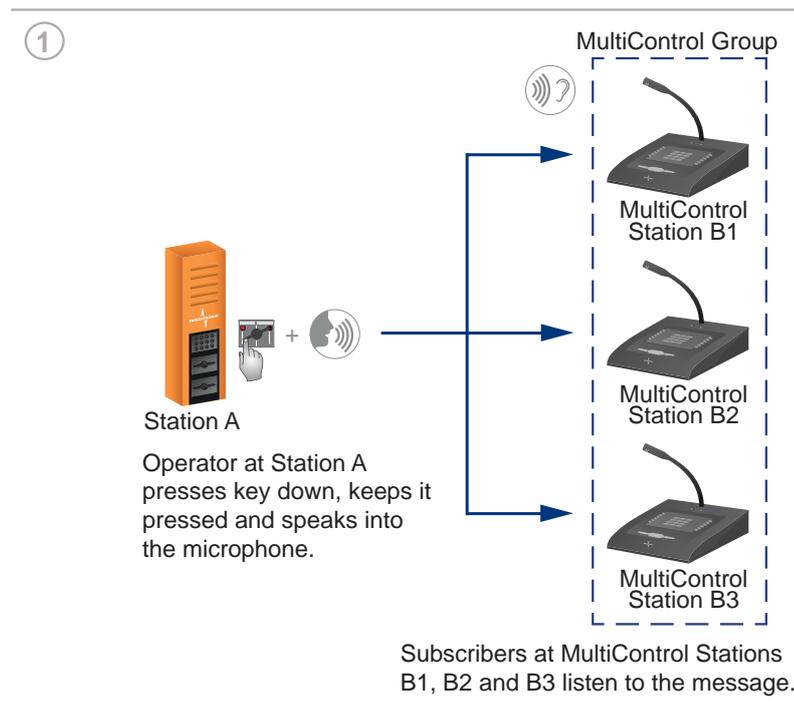
IN A NUTSHELL

Via simple keypress, you can establish a voice connection to a pre-defined group of several members (the so-called MultiControl group). As soon as one member of the MultiControl group answers, a two-way connection is established between 2 subscribers. The other members cannot listen, but they are free for other calls.

At the beginning it is a point-to-multipoint connection where all free members of the MultiControl group can listen to the message simultaneously. As soon as one member of the MultiControl group answers, a private two-way connection is established where 2 subscribers can speak and listen alternately, but not simultaneously.

Members of a MultiControl group can be INDUSTRONIC intercom stations of any type and a CANopen® interface (e.g. for communication with control room systems).

ILLUSTRATION



②



Station A

MultiControl Group



MultiControl Station B1



MultiControl Station B2



MultiControl Station B3

As soon as the operator at Station A releases the key and thus terminates his message, one subscriber at MultiControl Stations B1, B2 or B3 can answer.

③



Station A

Subscriber at Station A listens to the message.



MultiControl Station B2

Operator at MultiControl Station B2 presses key down, keeps it pressed and speaks into the microphone. B1 and B3 do not listen and are free for other calls.

DESCRIPTION

To establish the voice connection, the operator at Station A presses the key configured with the MultiControl group as target, keeps it pressed and speaks into the microphone (Push-to-Talk). All free members contained in the MultiControl group can listen to the message simultaneously.

As soon as the operator at Station A releases the key, one operator at a MultiControl station can answer (e.g. B2). To do this, he presses the key configured with Station A as target, keeps it pressed and speaks into the microphone. At the same time, the MultiControl stations B1 and B3 are free for other calls.

When the operator at Station A now answers, only the subscriber at MultiControl station B2 can listen. Both can now speak and listen alternately, but not simultaneously. The other subscribers cannot listen.

KEY SIGNALING AT MULTICONTROL STATIONS

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 MultiControl station using the example of an IP desktop intercom station from INDUSTRONIC with display buttons.



Signaling

Display button is off.
Button is not pressed.

Description

Target is free.



Display button is illuminated in green and blinks at a frequency of 250:250 (250 ms on / 250 ms off).

The target which can be reached via this button is speaking to you. (Ready-to-listen signaling)

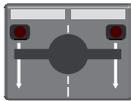


Display button is illuminated in green. Button is pressed.

A direct two-way connection is established to the target and the operator can speak into the microphone. (Ready-to-talk signaling)

KEY SIGNALING AT STATIONS ADDRESSING A MULTICONTROL GROUP

To show the signaling at stations which can establish a two-way connection to a MultiControl group, an outdoor intercom station from INDUSTRONIC with momentary rocker switches is used as example.

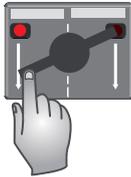


Signaling

LED is off.
Corresponding side of the rocker switch is not pressed.

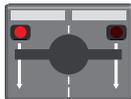
Description

MultiControl group is free.



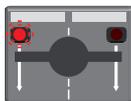
LED is illuminated.
Corresponding side of the rocker switch is pressed down.

A direct two-way connection is established to the MultiControl group and the operator can speak into the microphone. (Ready-to-talk signaling)



LED is illuminated.
Corresponding side of the rocker switch is not pressed.

MultiControl group is busy. (Pre-busy signaling)



LED blinks at a frequency of 250:250 (250 ms on / 250 ms off). Corresponding side of the rocker switch is not pressed.

A member of the MultiControl group is speaking to you. (Ready-to-listen signaling)

APPLICATION EXAMPLES

MultiControl groups are often used for applications where a subscriber want to address a group of several members simultaneously (e.g. a control room). By using the Push-to-Talk method, the voice connection is immediately established if a target is available and free.

A typical application example is a centralized, multifunctional control room. From there, the staff controls the communication with individuals in entrance or production areas via several intercom stations having equal rights. If one of the intercom stations in a control room is already busy, another free intercom station can accept a different call.

CUSTOMER BENEFITS

- Directly, immediately and reliably establish a two-way connection to a pre-defined group of several members (Push-to-Talk method)
- Depending on the situation, flexibly decide at which intercom station you want to answer the call
- Increased availability of a control room as several calls can be accepted at different intercom stations simultaneously
- Private voice connections (other subscribers cannot listen)
- Setup of MultiControl groups according to operational requirements

OPTIONS

Priorities

You can also assign an individual priority for each two-way connection. This means that an active connection remains busy for other subscribers with the same or lower priority. The connection can only be interrupted by a voice connection or function with higher priority.

Duplex

The conversation can also be held in full-duplex mode. This means that both subscribers can speak and listen simultaneously. To prevent acoustic feedback, INDUSTRONIC recommends using intercom stations with handset.

Answering

During an active two-way connection you can also use the SmartTalk key or if available the * key on a dial keypad to answer the call. This option is used when an intercom station has only a few keys available or when these keys are already assigned to other functions.

Other options are available upon request.

TECHNICAL DETAILS

MultiControl groups can be set up using INDUSTRONIC intercom stations of any type. These intercom stations require at least the following key:

- 1 direct call key for each target you want to call
 - If you want to establish voice connections to 5 different targets with your intercom station, you need 5 direct call keys.
- Optionally, you can also use a dial keypad to select the subscribers.

The key assignment of all intercom stations of a MultiControl group can be identical, but may also differ.

Each intercom station which wants to establish a voice connection to the MultiControl group, must have configured 1 direct call key to this MultiControl group.

RELATED FUNCTIONS

- Parallel group
- Direct two-way communication
- Selective call control
- Call Storage

© INDUSTRONIC