

DUSTRON

Industrial Communication App



Features and Functions

- Smartphone app for mobile industrial communication, indoors, outdoors and in Ex areas
- Intercom, PA/GA, control and maintenance functions – all in one app
- Mobile “Control Center” on the go
- Push-to-Talk group communication as an alternative to communication via mobile radios
- Replay of recorded announcements
- Call history for all incoming and outgoing calls
- Contact list of potential subscribers
- Network connection via Wi-Fi or 4G
- Intuitive user interface
- For Android-based smartphones

With the smartphone app DUSTRON from INDUSTRONIC mobile communication has found its way into industrial environments. The app turns your smartphone into a mobile intercom station enabling you to use, for example, intercom and PA/GA functions from anywhere on site.

DUSTRON offers you the same features as any other INDUSTRONIC intercom station including Push-to-Talk communication, broadcasting of announcements or triggering of alarms – to name just a few of the available functions.

No matter if you require additional control and maintenance functionality or want to establish a conference with several subscribers – the smartphone seamlessly integrates into the INDUSTRONIC world. Take full advantage of the complete functional scope of the INTRON-D *plus* system.

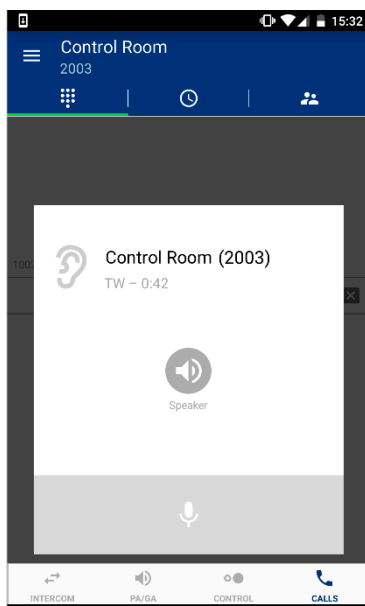
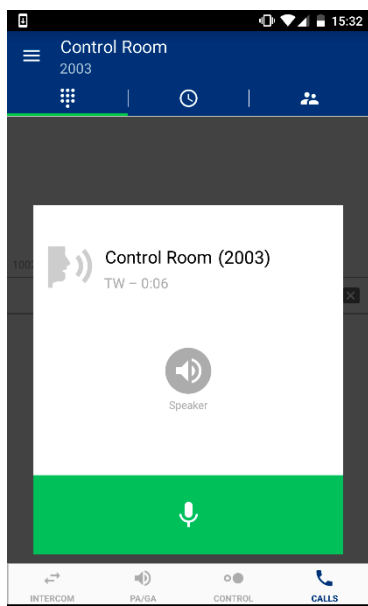
Besides the classic communication functions, the app considerably facilitates the maintenance of a single INDUSTRONIC system as well as complex system networks. Different system states can be conveniently checked on the smartphone from anywhere in the plant. Potential fault and error messages are transmitted to the smartphone and displayed as an overview table. Thus, service engineers can respond faster and receive direct feedback via the app whether the fault has successfully been eliminated and whether the system is running again without errors.

With the app, control center staff gains more flexibility and mobility. All communication functions of the control center are available right at their finger tips. They can just leave their desk, take their smartphone and simply use the features on the go.

The app can be connected to the INTRON-D *plus* system via Wi-Fi or 4G. Also existing single systems and complex system networks can be enhanced by this mobile option.

The app runs on all Android smartphones with version 5 or higher. With the appropriate smartphone, it can also be used outdoors and in Ex areas.

Of course, you can use all the other standard features of your smartphone in the usual way.



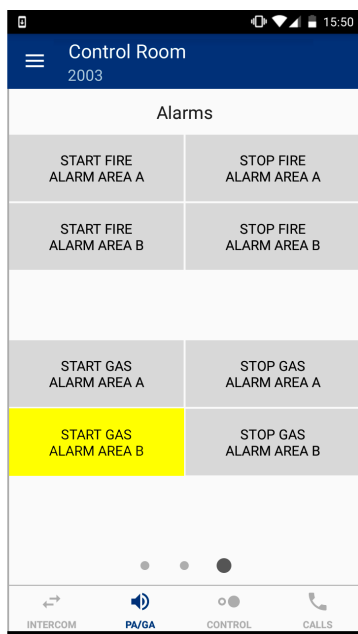
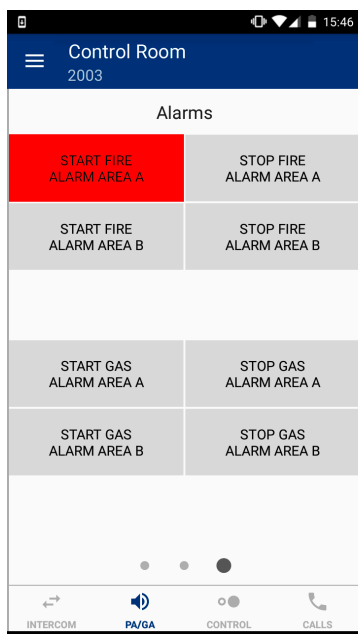
Calls & Announcements

DUSTRON turns your smartphone into a mobile intercom station. You don't need to go to a stationary intercom station to make a call or an announcement.

Via Push-to-Talk (PTT), you can immediately establish a two-way connection or a group call.

If required, you can also communicate in duplex or handsfree mode.

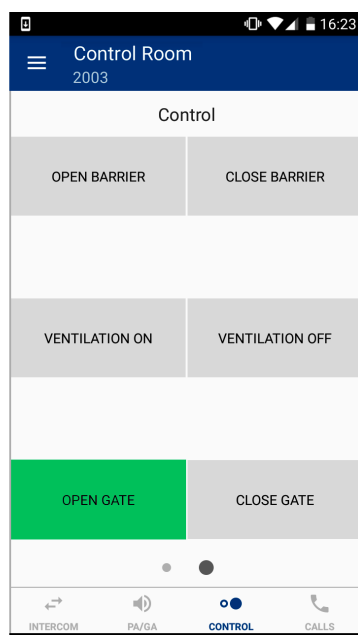
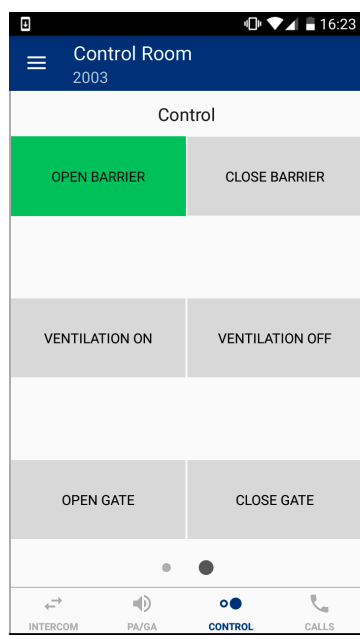
As an alternative to mobile radio, PTT group communication with several smartphones or other terminal devices is also possible.



Alarms & Warnings

With the app, you can immediately respond to unexpected events and hazards. Alarms can easily and quickly be triggered via the touch screen. You can also reach emergency services outside the company premises with DUSTRON.

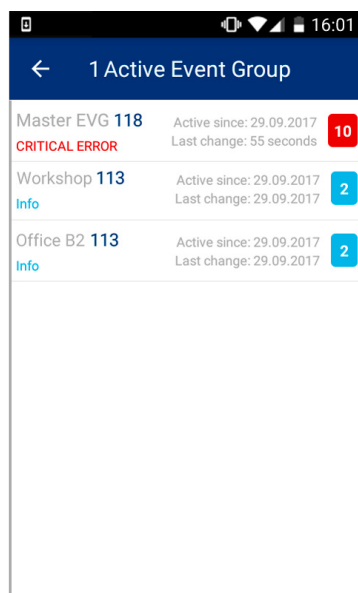
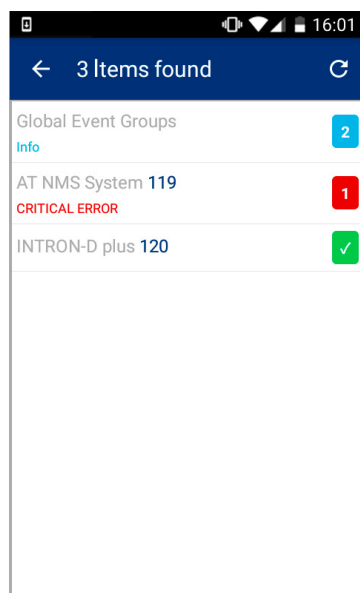
Furthermore, authorized security staff can always directly intervene by making live announcements overriding the current alarm (Voice-over-Alarm).



Control Functions

Convenient control functions allow you to easily manage access control tasks (e.g. opening gates).

If required, you can also activate the ventilation system or shut down system components.

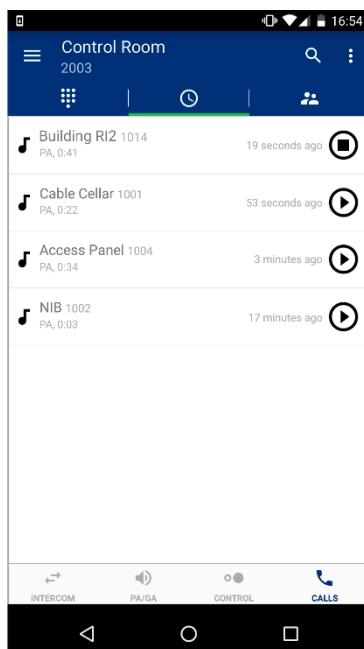
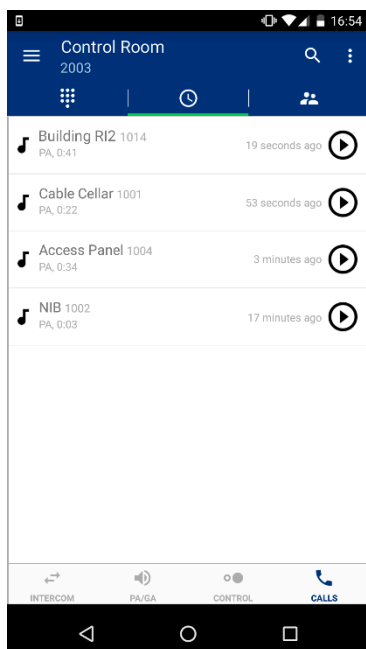


Maintenance and Commissioning

DUSTRON facilitates the commissioning and maintenance of INDUSTRONIC systems.

System states are transmitted to the smartphone. This enables the service staff to respond immediately and to receive direct feedback whether the fault has successfully been eliminated and the system is now running again without errors.

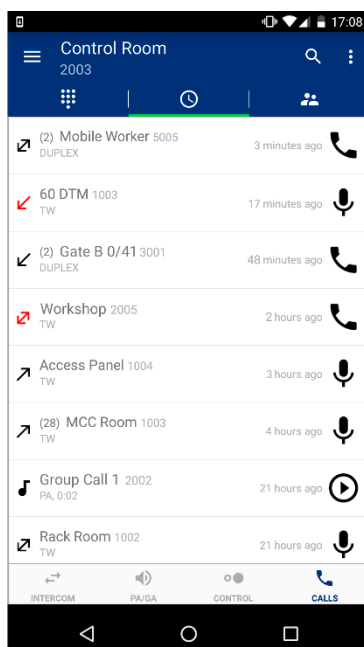
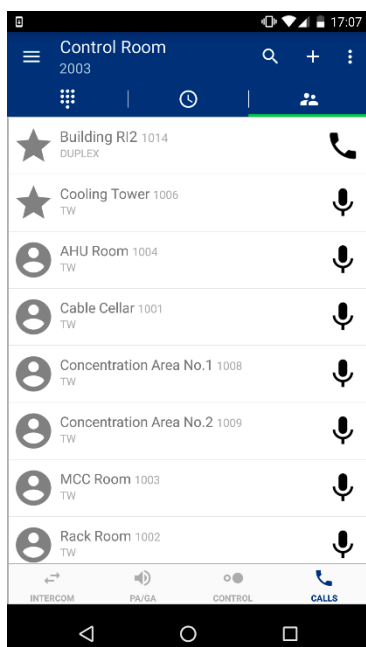
Loudspeaker levels can now conveniently be adjusted right on the spot.



Announcement Replay

No matter if you missed an all call, group call or an alarm – all incoming announcements are stored on the smartphone and can be replayed at any time.

This is a great advantage especially in locations where no speakers are present or they are muted.



Contacts & Call History

The app provides a contact list with all subscribers of the system in alphabetical order. Frequently called subscribers can be saved as favorites.

All incoming and outgoing calls are stored in the call history. Each entry shows date, time and the call number of the subscriber.

Both lists can be searched – also via voice control.

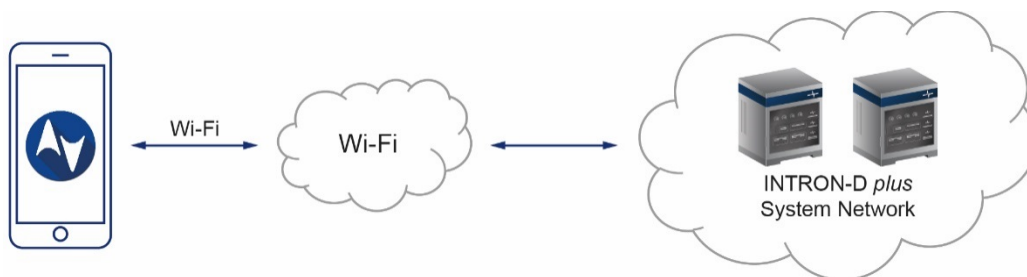


Fig. 1: Connection via Wi-Fi

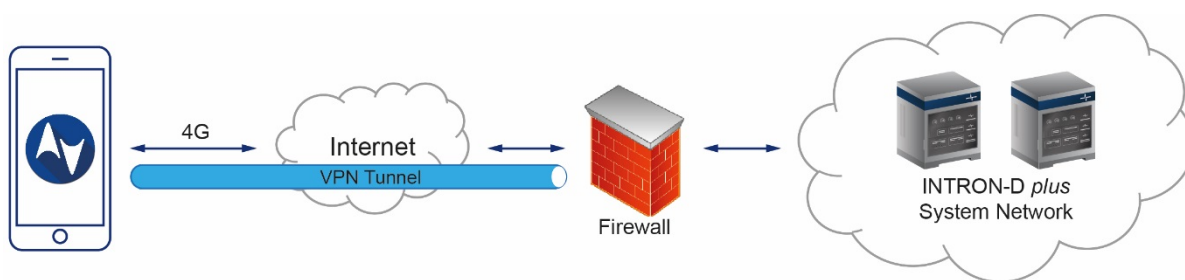


Fig. 2: Connection via 4G and VPN tunnel

Other Features

- Complete functional scope of the INTRON-D *plus* system
- Establishing and receiving voice calls (two-way, handsfree, duplex)
- Initiating and receiving all calls and group calls
- Triggering and terminating alarms and warnings
- Triggering of control functions
- Monitoring of system states
- Indication of fault and error messages
- User interface can be customized by using the configuration software Config Manager from INDUSTRONIC
- Runs on standard smartphones with appropriate Android version
- Dial keypad

Network Requirements

- IPv4 network
 - Support of UDP, TCP and RTP protocols
 - Quality of Service (QoS)
 - Ideal latency value < 50 ms (max. 100 ms)
 - Jitter: max. 100 ms
 - Wi-Fi or 4G
 - 200 kBit/s basic bandwidth and 200 kBit/s per active audio channel
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Technical Data

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|-----------------------------------|-----------------------------|
| • Operating system | Android version 5 or higher |
| • Download | Google Play Store |
| • Smartphone | No specific type required |
| • Max. number of display buttons* | Approx. 200 |
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*Depends on the size of the smartphone display.

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Subject to technical modifications