

# INTRON-D Functions

## Overview

The INTRON-D industrial communication system from INDUSTRONIC realizes the **communication** in the general course of work or in emergencies in industrial plants. **Information, working instructions** and **alarm messages** are transmitted to and among the employees.

As various system functions are available the communication becomes especially effective.

In order to meet current and future communication requirements, the INTRON-D communication system from INDUSTRONIC provides the following basic functions:

- **Communication and Public Address Functions**
- **Interface Functions**
- **System Integration Functions**
- **Safety Functions**
- **Software Maintenance Functions**
- **Supporting Functions**

## Communication and Public Address Functions

Exchange of information between one and another party or several parties

- **Direct Two-Way Communication (pre-defined)**  
A pre-defined communication link to a user is established by pressing a single direct dial key
- **Dynamic Two-Way Communication**  
Establishes a communication link on demand to any intercom station via a telephone type numerical keypad
- **Group Call**  
Multiple participants can be combined to a group and addressed by pressing a direct dial key
- **All Call**  
All connected participants can be addressed simultaneously by pressing one key
- **Dynamic Group Call**  
Multiple participants can be combined to groups and addressed on a freely selective basis
- **Page and Party Call**  
Placement of a call in the entire facility (all call) or in a certain area (group call) to inform a certain party that he is supposed to respond to the call using the next intercom station available
- **Switchboard Function**  
Control intercom station (= exchange station) manually establishes a connection between two intercom stations
- **Conference Function**  
Communication among multiple intercom stations via conference channel
- **Handsfree Operation**  
Enables the user at an intercom station to be heard by the control station without pressing keys, except for the key to register at the control station
- **Multi Control Station Call**  
Incoming calls from external intercom stations are routed simultaneously to multiple control stations. The calls can be accepted at any of the addressed control stations
- **Muting Function**  
External loudspeakers at intercom stations are muted once an incoming call has been accepted
- **PA Function**  
One-way communication to a group of loudspeakers and/or call stations
- **Alarm and Warning Function**  
Automatic or manual alarm activation

## Interface Functions

Connecting other independent systems

- **Telephone Interface**  
Allows connection of analog PBXs and ISDN digital telephones or PBXs to the system
- **Alarm System Interface**  
Alarm and warning system connectivity
- **Intercom System Interface**  
Interface to other analog and/or digital intercom systems

## Systems Integration Functions

Integration of other systems

- **Two-Way Radio System Intergration**  
Integration of two-way radio systems
- **Voice Recording System Integration**  
Integration of voice/message recording systems

## Safety Functions

To ensure working, operational and system safety

- **System Component Monitoring**  
The system implements continuous monitoring of the central processor unit, intercom stations and cabling. Detected errors are displayed and logged.
- **Speaker Monitoring**  
Monitoring of the loudspeakers and/or loudspeakers loops
- **Amplifier Monitoring Function**  
Continuous monitoring of amplifiers
- **Redundancy Function**  
Automated key component swap with pre-installed back-up components in the event of failure (CPU, power supply, amplifiers and DC/DC converters)
- **Failure Indication Function**  
Acoustical and visual signaling of system errors

## Software Maintenance Functions

Software controlled diagnostics, maintenance and modification of the communication system

- **Diagnostic Function**  
Detecting and locating errors, failures, interference
- **System Programming and Real Time Modification**  
Creating a new or changing the current intercom connection program by the user during operation
- **Remote Maintenance**  
System analysis and software maintenance via internet or intranet

## Supporting Functions

Additional functions which support the main functions

- **Tone and Voice Signals**  
Record and output of signal tone sequences and voice messages
- **Visual Signaling**  
Incoming call notification via visual signaling
- **Call Storage**  
A visual signal is used to indicate a missed call
- **Pre-tone**  
A pre-defined audio signal used for incoming call notification at the target station
- **Priority Call**  
All communication links have a pre-defined priority level, links having a higher priority can interrupt an active communication link
- **Busy Signaling**  
A signal which indicates the availability of an intercom station before placing a call

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