

INTRON-D plus

Modular, Flexible & Innovative Industrial Communication

Oil & Gas Chemicals & Pharmaceuticals Metals, Minerals & Mining Energy & Utilities Transportation & Others INDUSTRONIC manufactures SAFETY Focused Industrial Communication Systems with standard features that allow for day to day in-plant communication to help drive work flow efficiencies and overall plant productivity.



Established in 1964 – Family Owned Enterprise

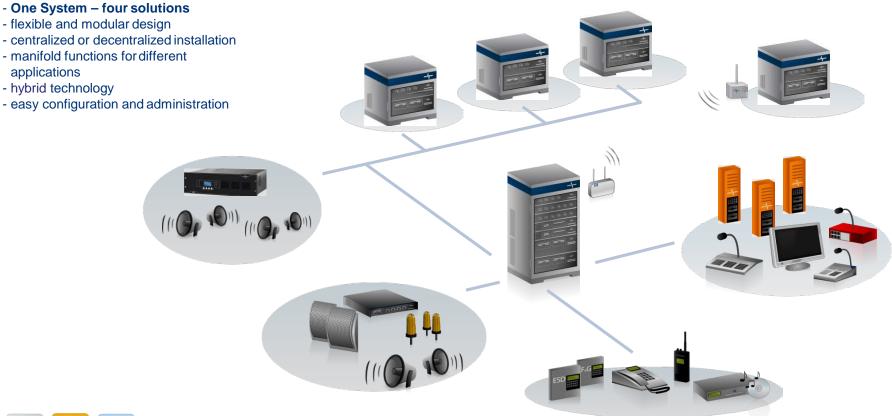


Project Share per Industry

Oil & Gas	48%
Chemicals & Pharmaceuticals 26%	
Metals, Minerals & Mining 20%	
Energy & Utilities 4%	
Transportation & Others 2%	

INTRON-D plus

Industrial communication you need for SAFETY, plus additional features that increase plant efficiencies, productivity, and supply detailed analytics about system functionality

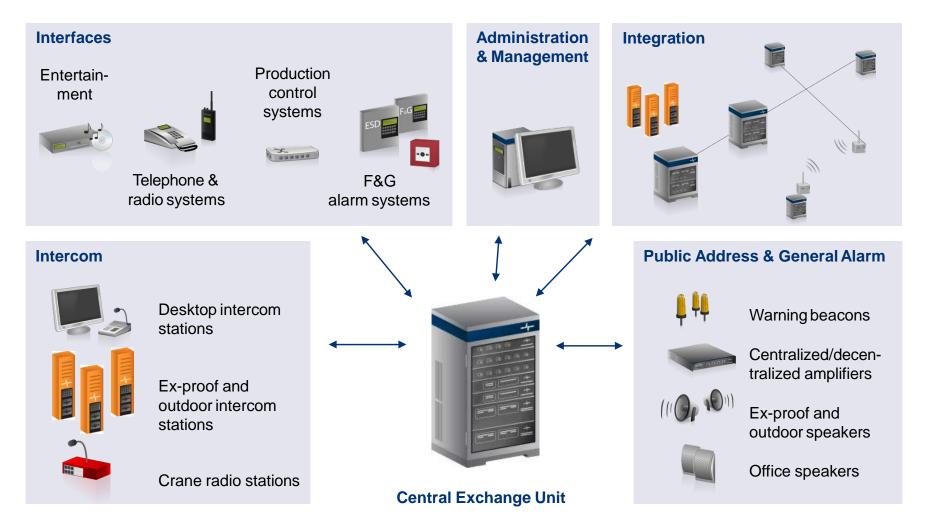




INTRON-D *plus – Four Solutions*



INTRON-D plus - Modular Design



Intercom



Intercom Functions

- Two-way communication (pre-defined)
- Duplex communication
- Multi Control Station function
- Conference function
- Page and Party function
- Visual and acoustic call and busy signaling
- Visual and acoustic call storage
- Keypad dialing

Public Address (PA)



Public Address Functions

- Group calls and all calls
- Selectable group calls
- Automatically controlled calls
- Public address function
- Call groups and parallel stations

Public Address & General Alarm (PA/GA)



Warning and Alarm Functions

- Individually activated warning scenarios
- Manually activated warning scenarios
- Automatically activated warning scenarios
- Semi-automatically activated warning scenarios
- Time-controlled scenarios
- 200 priority levels
- Systems certified according to EN 54-16 and EN 60849



(IP

Indoor Intercom Stations & PA Access Panels

PC Intercom Station .



- Up to 2000 keys programmable
- Free creatable screen layout
- Intuitive user interface and clear indication of current events



* Parameters of EX-Panel are different

Desktop Station (DT series)

- Up to 7 plug-in keypads
- Foil keypads (16 keys)
- Keypads with toggle switches (10 keys)
- Types: 10/20/30DT or 16/32/48 DT





- 7" color touch display with easy-to-use menu
- Mechanical keys with multi-colour status indication
- Modular design, up to 200 display keys and 2 x 24 additional keypads



Desktop Station (DTM series)

Up to 4 keypads with 15 keys
 each

____ Digital

- Display with 4 x 20 characters
- Types: 15 / 30 / 45 / 60 DTM



12 NIB 001

12 direct dialling keys

- Number dial
 pad
- LCD display
- Option: wall mounting





IP Compact Station

• Keypads with 10 or

(max. 32 keys)

Dynamic mic. &

.. NRC 001

16 keys

•

Robust

Flush mounting



speaker

Up to 9 keypads with 10 / 16 keys Types: 10 / 20 ... 90 DE or 16 / 32 ...144 DE





IP Desktop Intercom Station (Access Panel) for connection with INTRON-D plus



Main features

- 7" color touch display with easy-to-use menu
- Mechanical keys with multi-colour status indication
- Audio bandwidth of up to 16 kHz
- Network connection via Ethernet
- PoE or external power supply
- Modular design, you can connect:
 - 1 handset
 - Up to 4 additonal keypads with 24 mechanical keys each

Configuration of touch display

- Basic: 1 display layer with up to 20 display keys
- Functional extensions possible:
 - 120 display keys (6 display layers with 20 keys each)
 - 200 display keys (10 display layers with 20 keys each)
 - Customization of display keys (color, size, shape)



Example Display Template



IP PC Intercom Station NCP 001





Features and Functions

- Management of up to 2,000 buttons
- Various screen sizes and resolutions (up to 4K)
- Audio bandwidth of up to 16 kHz
- Network connection via Ethernet
- Highly customizable user interface
- Support of two monitors when applications runs in window mode
- On-screen dial keypad
- Changes in configuration can also be performed on site

Components and Accessories



Monitor



or

PC



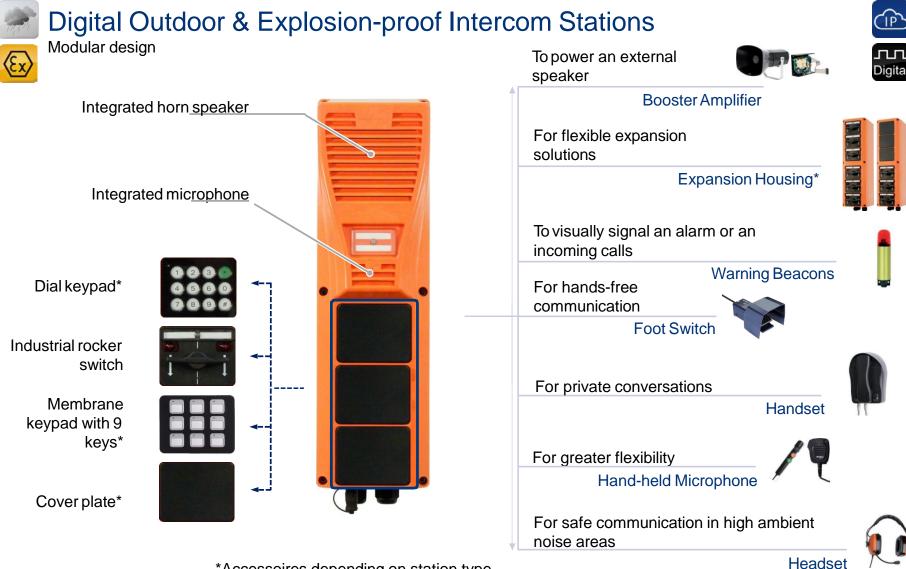
Microphone





Speakers

Handset



*Accessoires depending on station type





Digital Weatherproof & Explosionproof Intercom Stations

Digital

____ Digital

JIJ Digital





For special Applications: -Handset

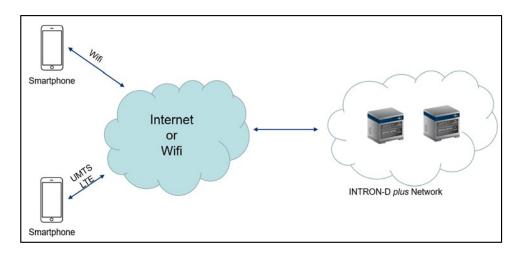




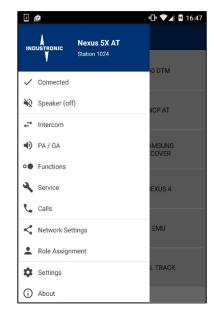
Several editions: - with certifications for different countries (USA, Russia, China...) - special colores

INDUSTRONIC Smartphone-App

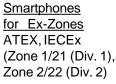
- Mobile Intercom station (Wireless and Cellular)
 - Activation of Alarms
 - Point to Point Communication
 - Group Calls, Paging, All calls
 - Voice over alarms
- Remote Maintenance and Monitoring



Use of existing infrastructure



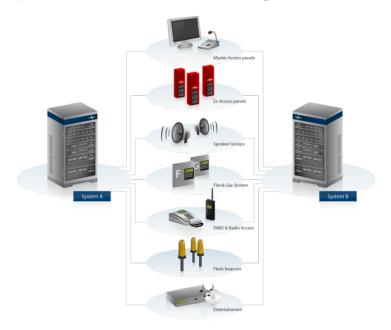






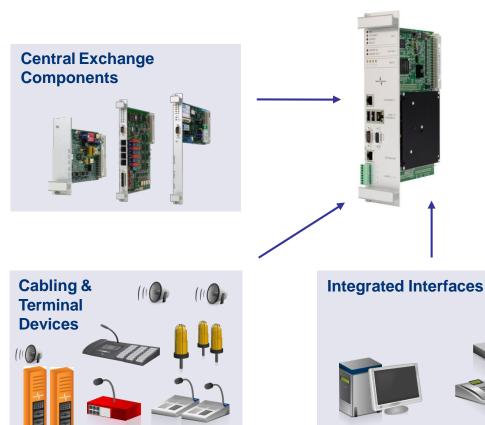
System Reliability and System Self-monitoring

- Component monitoring
- Redundancy concepts



System Monitoring

Real-time alert in case of component failure



Exchange Control Board

Permanent Real-time Monitoring

- All digital components, like:
 - Digital exchange control board

- Line cards (BUS components)
- Digital intercom stations
- Digital amplifiers
- etc.
- All cabling for:
 - Short circuit
 - Cable break
 - Incomplete data transmission
 - Connectivity problems
 - etc.
- All integrated interfaces:
 - SIP
 - Modbus
 - CANopen
 - SNMP

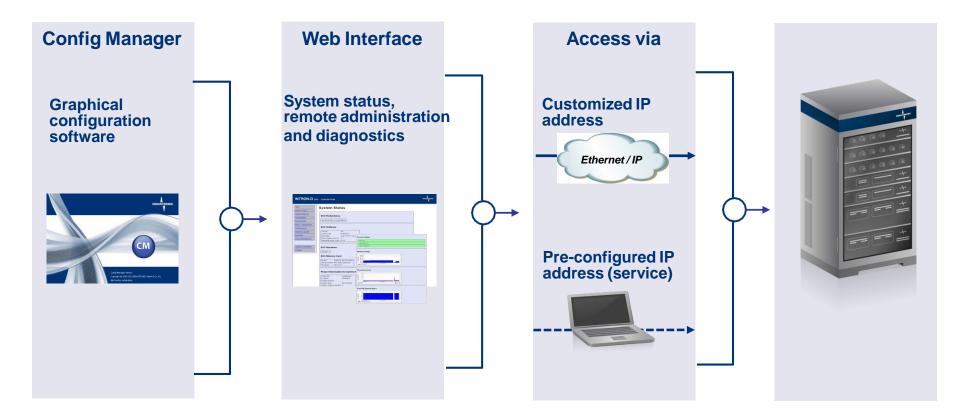


Administration & Management

- Diagnostics
- Configuration
- Remote administration
- Network management



Administration & Management



Configuration Software Config Manager

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Management of System Data

• Graphical user interface with intuitive menu in English or German language

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- Clearly structured system components
- History of configuration data
- Release Management
- Integrated report functionality
- Integrated help function [F1]
- Syntax and semantic check of all data entered
- Single user license with USB dongle

Configuration

- Configuration of single systems or complex system networks
- Configuration of interfaces, stations, functions, etc.
- Configuration of complex control or warning functions

Diagnostics via Web Interface

Status	System Status	
Network Ients	DXC Redundancy Current mode: no redundancy	
ation	DXC Software	
2 Update 2 ministration	Version info: Release 3 Build date: Aug 17 2011 14:2: Base system version: 3 Standard audio codec: G711	Process Status
Commands	DXC Hardware	le Acetration ok le Audo over Prak
	Version: 1 DXC Memory Card Model SanDisk SDCFH-004G Senal number: BF2100810040235 Firmware: HDX 5.11	Memory Usage
	Project Information for System I Customer: Systemtest Location: Wettheim Project number: Intron-Dplus System network number 5	Processor Load
	Oyseen neuroux nulfiber, 5	Free File System Space

Web Interface

• Graphical user interface in English or German

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- Information on
 - Software
 - Hardware
 - System network
 - Project
 - Process status

Remote Administration

- Easy upload and download of system configuration
- System commands
- Network configuration

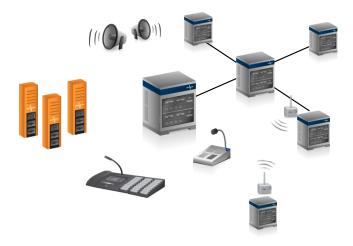
Diagnostic Function

- Hardware information (e.g. stations, components,...)
- System voltage, temperature, memory status
- Diagnostic reports
- Error management via e-mail



System Integration

- Various interfaces available
- Easy integration







System Interfaces

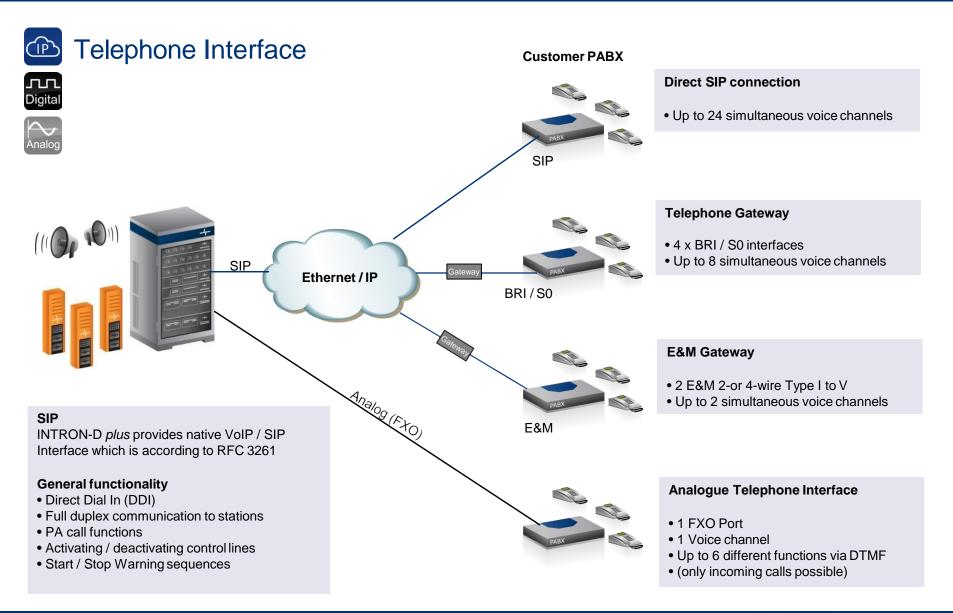
- Telephone
- Fire & Gas alarm systems
- Management systems
- Entertainment
- Radio systems













Radio Solutions



Analog





INTRON-D plus



Radio Interface of:

- Analog UHF or VHF
- Digital radio systems
- IP intercom stations via WLAN (IP crane station under development)
- IP based WLAN handsets (via SIP)



Thank you for your attention!

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