

netCIS

Compact INDUSTRONIC System



Features and Functions

- Intercom, Paging and Alarming
- Digital and IP connectivity
- Redundancy capable
- 3 RU sub-rack for 19" frame installation
- Usable with *netAMP* as combined system
- 12 digital call stations*
- External system interfaces
- 200 IP devices*
- SIP-based interfacing

*Maximum configuration

The NFPA 72 compliant *netCIS* Compact INDUSTRONIC System by INDUSTRONIC synergizes customization and flexibility with quality and speed of delivery in a 3 RU sub-rack for 19" installation fully prepared for maximum configuration. Make use of optional components to put together your tailor-made compact system.

Its ability to provide Intercom, Paging and Alarming by using a single processor, the industry leading INTRON-D *plus* is unique in the field of industrial communication.

Using Plug & Play technology, connectivity via wireless, copper and Ethernet, the *netCIS* is the solution of simple and complex communication.

In addition, the *netCIS* is capable of interfacing to fire and gas detection systems, CCTV, IP-based telephony systems and competing PA/GA, Intercom and Emergency Paging systems.

INTERCOM

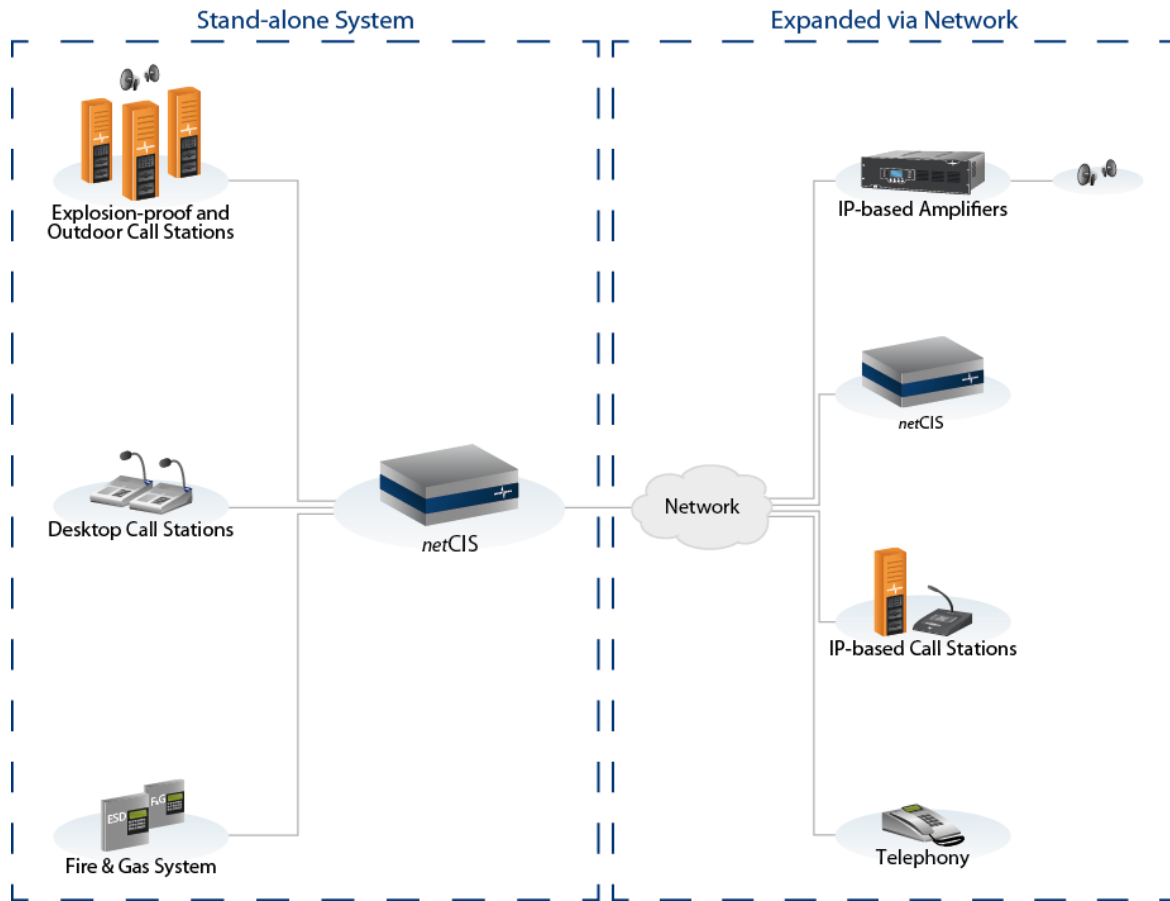
Whether you require point-to-point communication, a party channel or pre-defined group calls, the line of INDUSTRONIC digital and IP-based call stations and Access Panels combined with the *netCIS* Compact INDUSTRONIC System addresses all of your intercom needs.

PAGING

The *net* Series of INDUSTRONIC can be easily combined to a full paging system even not placed in the same cabinet. However, the *netCIS* can be installed into the *netAMP* to provide the operation of a full Paging System and to complement it into a full operating system.

ALARMING

The *netCIS* has the ability to use sound for alerting a plant or campus in an emergency. Standard with a digital audio processor and logic and pre-programmed announcements, routines can be utilized by the single push of a button or automatically enacted via detection interfaces.



Mechanical Data

• Housing	Aluminum & sheet steel
• Width x height x depth	486.2 mm x 133.5 mm x 345 mm (19.14" x 5.26" x 13.58")
• Main color	Silver
• Curb weight	Approx. 10 kg (approx. 22.05 lbs)
• Required space in 19" frame	3 RU (+1 RU cable feedthrough panel)

Electrical Data

• Operating voltage range	90 VAC to 264 VAC, 47 to 63 Hz
• Consumption range	Standby mode approx. 40 VA, max. 500 VA
• Internal operating voltage	48 VDC
• Operating voltage digital call stations	48 VDC

Environmental Requirements and Standards	• Ambient temperature during operation	0 °C to +45 °C (+32 °F to +113 °F)
	• Relative humidity (non-considering)	Max. 95%
	• Degree of protection	IP20 according to EN 60529
System Processor	• Standard configuration	Single processor Intercom or PA/GA
Interfaces	• Ports for digital call stations	12 (via 12 DDL 02, optional)
	• Fault message output	1 (dry contact)
	• I/O modules (03/03 NSG 001/B)	1
	• Spare relay outputs	2 (dry contacts, optional)
	• Analog audio input/output	1 (optional)
	• Input lines for 48 VDC	3 (optional)
	• Ethernet ports	2
Intercom	Maximum Connection Capacity	
	• Digital direct wired call stations	12
	• IP-based call stations	200
	• Max. number of simultaneous conversations digital - digital	6
	• Max. number of simultaneous conversations IP - IP	200
	• Max. number of simultaneous conversations digital - IP	12
Paging	Decentralized Amplifier Chassis Capacity	
	• Primary amplification devices	100
	Paging Functions	
	• All Call	• Pre-tone
	• Group Calls	• Dynamic Group Call
	Alarming Functions	
	• Zoned alarming	• Manual initiation
	• Voice-over-Alarm	• Automated pre-set alarm and voice scenarios

Network Requirements

- IPv4 network
- 10Base-T/100Base-TX Ethernet (IEEE 802.3), 100 MBit/s recommended
- Support of UDP, TCP, SCTP, RTP and RTCP protocols
- Quality of Service (QoS)
 - Ideal latency value < 20 ms (max. 50 ms)
 - Jitter: max. 10 ms
- NTP support for access to a central NTP time server
- Required bandwidths
 - 1 MBit/s basic bandwidth and 200 kBit/s per IP voice connection for system networking
 - For each IP intercom station: 200 kBit/s basic bandwidth and 200 kBit/s per active audio channel
 - For each IP public address unit NPA: 200 kBit/s basic bandwidth and 100 kBit/s per active audio channel

Order Data	Description	Type Number
Required Components & Activations	netCIS rack (pre-wired, not equipped)	320-900-900
	1 DXC 04 Exchange Control Board	341-702-200
	ACT-System INTRON-D <i>plus</i>	101-100-001
Optional Components & Activations	12 DDL 02 Line Card for 12 Digital Call Stations	341-710-200
	03/03 NSG 001/B IP Interface for Analog Systems	302-056-000/B
	ACT-IP Device	101-100-002
	ACT-2 IAP VoIP Channels	101-300-101

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