

Features

- Simple Installation
- User-friendly programming with PC software
- Digital communications
- System easily expanded
- 18 Watt on-board speaker amplifier
- Factory sealed
- Suitable for high noise areas; NEMA 4X
- Handsfree duplex or simplex operation
- Division 1 & 2 and Zone 1 & 2 hazardous areas

Benefits

- Allows end-user to easily control, monitor and change the system setup
- Reduces cabling and noise induction
- Flexible enough to accommodate all size systems and system changes
- Lower cost: no need for amplified speakers or booster amps
- Lower installation cost
- Flexibility in installation
- Adaptable for different customer requirements
- Provides safe communications in hazardous areas



Driller's Intercom Systems provide communications between drill operators and rig personnel. Comprised of a central controller or intercom server and various outstations, the system's digital architecture is used to link the stations with the intercom server.

Standard intercom servers unit include station line cards, audio interfaces and relay interfaces allowing ease of connection to PA, Radio or Alarm systems. Additionally, tone generators and telephone/radio interfaces may be added to create complex loudspeaking and PA systems. Each intercom server unit can manage up to 16 digital or analog subscribers, expandable to 32 subscribers. Intercom servers may be linked or a larger server may be used for increased system size. By combining intercom servers, the system is easily expanded at any time.

The intercom server can interface with a variety of stations. The intercom stations are available as explosion-proof, weatherproof or desktop units.

The stations have direct access by using the keypad, pre-programmed keys or speed dials. This allows the user the capability of performing point to point private calls. Additionally, the system may be configured to allow group calls, conference calls and all call announcements.

A Windows based configuration tool allows the user to program the system parameters and update the system setting when required. If connected to a modem the user or GAI-Tronics service personnel can dial in to the unit to troubleshoot the system remotely.

Specifications

INTERCOM SERVER

Power Input AC Power: 24 V +/- 5 % 40VA;
 DC Power: 24-35 V/40W
 Physical Size 12.2" W X 8.26" L x 3.05"D
 Operating Environment 0°C to +50°C @ 20-80%
 humidity, non-condensing
 Frequency Range..... 200-7000 Hz
 Distortion..... Less than 0.9%
 Mounting..... Wall-Mounted

DESKTOP STATION

Power Supplied by Central
 Frequency Range..... 200-7000 Hz
 Housing Shockproof ABS Plastic
 Physical Size 2.59" W X 9.45" L x 2.28"D
 Cabling..... Star Feed, twisted Pair CAT 5
 Operating Environment..... 0°C to +50°C up to 95%
 non-condensing humidity
 Environment Rating..... IP 50

HAZARDOUS STATION

Power Input 90-240VAC 50/60Hz 24 VDC +/- 10%
 Physical Size 10.3" W X 15.9" H x 8.1"D inches
 Operating Environment -20°C to +60°C @
 95% humidity, non-condensing
 Frequency Range Transmit: 200-4kHz
 Receive: 200-10kHz
 Termination..... Screw Terminals
 Speaker Amplifier..... 18 watts / 8 Ohm load
 Cable Signal-Twisted Pair,
 20-24 AWG CAT 5 Cable
 Cable Distance 9,000 ft with 20 AWG CAT 5 Cable
 Transmission Full Digital, 2 X 64 kBits speech,
 16 kBits/s data
 Approvals..... NRTL Listed-Class I,
 Division 1, Groups C,D
 Environmental Rating..... NEMA 4X

INDUSTRIAL STATION

Power Input 90-240VAC 50/60Hz 24 VDC +/- 10%
 Physical Size 13.2" H X 9.4" W x 7.4"D inches
 Housing High-impact, anti-corrosive polyester
 Operating Environment -20°C to +60°C @
 95% humidity, non-condensing

Frequency Range..... Transmit: 200-4kHz
 Receive: 200-10kHz
 Termination..... Screw Terminals
 Speaker Amplifier..... 18 watts / 8 Ohm load
 Cable..... Twisted Pair, 20-24 AWG CAT 5 Cable
 Cable Distance 9,000 ft with 20 AWG CAT 5 Cable
 Transmission Full Digital, 2 X 64 kBits speech,
 16 kBits/s data
 Environmental Rating..... NEMA 3R

Main Features

- **Compact Central Housing**
- **Easy Installation and Start-up**
- **Remote Programming via Modem**
- **Excellent Speech Quality**
- **Beacon Output**
- **Footswitch**

Order Information

| Description | Part Number |
|---|--------------------|
| Intercom Server | DIS-200 |
| Hazardous Station with Keypad: 120VAC 24VDC | DEX-202 DEX-102 |
| Hazardous Station NO Keypad: 120VAC 24VDC | DEX-201 DEX-101 |
| Industrial Division 2 Stations | DHS-101 DHF-101 |
| Desktop Station | DDT-100 |

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Quality Management System Certified by DNV - ISO 9001:2008

The policy of GAI-Tronics is one of continuous improvement; therefore the company reserves the right to change specifications without notice.