



# vicCOM ART

## Station for Distributed Communication Systems via audioRTBUS

The digital 2-wire vicCOM ART station is used in simple communication systems for two-way communication and announcements. For high speech intelligibility and intuitive use, even in industrial applications, it features adaptive noise suppression and a hands-free function in full-duplex quality.

Thanks to voice INTER connect's patented audioRT(ART)-BUS, an easy retrofit with vicCOM ART as well as a transition to digital communication with several calls per bus is possible in case of already existing 2-wire cabling. The audioRTBUS is characterised by its long range (up to approx. 1000 m) and minimal latency. All vicCOM ART microphone units can be centrally supplied with power via audioRTBUS.

### PRODUCT FEATURES

- Intercom station with audioRTBUS interface
- Full-duplex audio communication and hands-free talking with integrated acoustic echo cancellation (AEC) and noise reduction (NR)
- Support of multiple parallel audio channels (e.g. simultaneous conversations or announcements)
- Integrated microphone and loudspeaker
- A call button for calls and announcements
- Two status LEDs
- Power supply via audioRTBUS

### APPLICATIONS

- Intercom and emergency call systems in buildings and elevators, especially retrofits for 2-wire installations
- Industrial stations
- On-board communication (e.g. ships, trains, public transport)
- Voice communication in emergency vehicles
- Announcements in public buildings

### DESIGN FEATURES



vicCOM ART Intercom station in original size

- Loudspeaker with metal protective grille
- Electret microphone
- Talk button
- 2 x status LEDs (yellow and green)
- audioRTBUS connection (WAGO, 4-pole)
- Plastic housing (L x W x H):  
(160 x 60 x 24) mm

### TECHNICAL CHARACTERISTICS

- Enables duplex voice connections or announcements
- audioRTBUS connection for simultaneous transmission of audio and control data via 2-wire cable
- Supports up to 8 microphone units per bus line
- Multiple parallel audio channels
- Real-time start-up behaviour, thus extremely power-saving operation
- Automatic interference detection
- Power supply: 8 ... 32 V
- Update of all microphone units via bus master

### OPERATING PRINCIPLE

Several intercom units form a distributed communication system which can transmit audio signals and control information via two bus wires. The bus master manages and monitors all digital stations along the bus and generates the clock. Due to the deterministic latencies of the bus protocol in the millisecond range and the synchronous audio transmission, vicCOM ART is particularly suitable for public announcements and communication applications.

The integrated digital noise suppression and acoustic echo cancellation enables comfortable hands-free talking in full-duplex operation with high speech intelligibility. Even at high ambient noise levels, such as in industrial environments and emergency vehicles, good communication between the participants is ensured by a powerful 5W loudspeaker. The two status LEDs are used to visualise the audio modes or any interference in the communication system.

The functional compact housing can be integrated into wall panels or used standalone.

### ORDER NOW

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Order number: 11002100X-01