

MODEL: TPP-240Z

ADDRESSABLE TOUCH BASED 2 WAY TALK BACK PAGING STATION (240 ZONES)



KEY FEATURES

- Event Logging & Reporting - Generate and view detailed system event logs for monitoring, analysis, and compliance.
- Evacuation Messaging - Play pre-recorded evacuation drill messages across all zones or selected zones for effective emergency preparedness.
- Test Tone Verification - Initiate test tones in specific or all zones to validate speaker functionality and system integrity.
- Bus Fail-Safe Operation - Ensures continuous system performance; if any speaker in the loop fails, remaining units remain fully functional.
- Clear Voice Reproduction - Adaptive noise suppression, echo cancellation, and optimized frequency response for superior intelligibility.
- High-Sensitivity Microphone - Integrated MEMS microphone delivers accurate voice capture in critical conditions.
- Capacitive Touch Display - 10" rugged HDMI HMI touchscreen ensures precise control, reliability, and long-term usability.
- Flexible Communication Control - Individual button selection for direct calls, group selection for broadcast communication.
- Push-to-Talk Functionality - Intelligent PTT with advanced speech enhancement algorithms for natural, distortion-free communication.
- Voice Notifications - Audio-based alerts for incoming calls improve situational awareness and responsiveness.
- Durable Construction - Rugged ABS enclosure designed for impact resistance and long-lasting operation in demanding environments.

The Triobrics Addressable Touch-Based 2-Way Talk Back Paging System Unit is a microcontroller-based advanced evacuation communication solution, purpose-built to ensure reliable and clear voice transmission during emergencies such as fires. Designed for mission-critical applications, it supports high-fidelity, full-duplex communication with advanced acoustic processing, real-time diagnostics, and robust connectivity to guide occupants safely and enhance emergency preparedness. Seamlessly integrating into commercial, industrial, and public infrastructure, it is ideally suited for malls, hospitals, high-rise buildings, industrial automation systems, security and surveillance hubs, transportation and logistics facilities, as well as public address, mass notification, and crisis management systems.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Microcontroller	Integrated high-performance microcontroller
Power Input	12V DC
Audio Output Power	2 W RMS
Microphone Type	RS-485 (Multi-drop, fail-safe biasing)
Speaker System	High-performance electret condenser with adaptive noise filtering
Frequency Response Range	High-efficiency transducer with built-in amplifier
Communication Interface	300 Hz - 4 kHz
Operating Temperature	RS-485
Enclosure Material	-20°C to +60°C
Mounting Configuration	High-durability ABS plastic