

MULTI-ZONE TELEPHONE INTERFACE

Multi-Zone Universal Telephone Interface

UTI312



Bogen's **UTI312** is a multi-zone paging controller with universal telephone interface. It is expandable from 3 to 12 zones in 3-zone increments using ZX3 expansion modules. Each zone has its own buffered paging output (150 speaker drive capacity) with volume control, a C-form relay contact and "zone active" indicator. Each module includes a pluggable 24V DC power distribution terminal strip and pluggable terminal strips for each zone for easy wiring. A built-in 24V DC, 1A power supply is provided for powering amplified speakers. The UTI312's universal telephone interface is identical to the UTI1 (page 31). Two background music (BGM) inputs, with volume controls, provide each zone with a choice of BGM sources or no BGM. Two tone triggers are available as well as a 90V night ringer input. Separate volume controls for the night ring and tone triggers, along with an adjustable page level limiter, make it easy to set appropriate levels.

Powerful software features provide the UTI312 enormous flexibility for demanding applications. 2-, 3-, 4-, or 5-digit dialing plans allow the UTI312 to fit into any dialing structure. Twenty-four zone groups, zone groups for each tone input and night ring as well as a zone group for the override input, provide plenty of installer flexibility. A programmable AUX relay contact, in addition to the zone relay contact, provides flexibility for controlling external equipment based on the UTI312's activity.

Product Features:

- Expandable from 3 to 12 zones (in 3 zone increments using ZX3 modules; one ZX3 module included)
- One-way paging only
- Interfaces to Loop Start, Ground Start, Analog Station, and Page Ports (with or without contact closure activation)
- Simple 2-switch interface setup
- 2 Background music (BGM) inputs with level controls
- BGM sources assignable per zone
- Level control for each zone output
- Zone active indicators
- C-form contact per zone
- 150 Speaker T/R drive capacity per zone
- 24V DC, 1A power supply
- Programmable AUX Relay
- Page level limiter with active indicator
- Adjustable automatic level control
- Override input (loop start or page port)
- Code calling capability
- 2 Tone trigger inputs for tone burst, chime, double chime, and slow whoop tone selections
- Contact and 90V Night Ring inputs
- Pre-announce tone
- Confirmation tone
- Separate night ring and tone volume controls
- 24 User-assignable zone groups
- Separate override, all-call, tone trigger, night ring, and code call zone groups
- Auto select paging zone group
- 2-, 3-, 4-, or 5-digit dialing plans
- Microcontroller operated, DTMF programmable
- Night ring tone or chime selection
- Setup test tone
- Pluggable terminal strip connectors
- Programming through override jack
- Programmable timeout for station mode
- Programmable trunk port timeout
- Responds to CPC disconnect signal
- Includes wall or rack brackets
- FCC Part 68 Registered
- Listed to UL Standard 60950 for US and Canada



UTI312 shown with 3 optional ZX3 Modules

Power Requirements	Dimensions	Product Weight
120V AC, 0.75A	16-3/8" W x 3-1/2" H x 4-7/8" D (without mounting flanges) 19" W (with mounting flanges)	8 lb.



Override Zone Group

The override input on the UTI312 has the highest priority of all the inputs but does not have to provide an All-Call function. Since the override has a zone group associated with it, the installer can determine which zones receive pages during an override.

For example, assume that in a 12-zone system 11 zones are used to provide audio to different parts of a building, but one zone is not used for audio purposes. The contact closure for this zone is used to control a door latch. When this zone is active, the latch is open. If the override was predefined to activate all zones, then the door latch would open during override operation which may not be desirable. By programming the override zone group with all zones except the one connected to the door latch, an override can be made and the door will remain locked.

Two Background Music Inputs

In a system with multiple zones, it is not uncommon to find applications that have different background music (BGM) requirements in different zones. To provide flexibility in these situations, the UTI312 has 2 BGM inputs. Each zone, through jumper assignments on the ZX3 module, can select one or the other BGM source, or none at all.

Auto Select Paging

When using the auto select paging feature, there is no need to dial a zone or zone group. Whenever the paging input becomes active, the auto select paging zone group, with user-assigned zones, will determine what zones are active. This may seem to be an unusual function for a multi-zone paging application. However, often the need for zoning is determined not by voice paging needs, but by the need to play tones in different zones.

In these instances, a shift change tone may need to be produced in the factory areas but not in the office areas. So a tone trigger zone group will be set up to channel the tone just into the factory. In this case, voice paging is done like an All-Call, but the tones are zoned.

Accessories

ZX3
3-Zone Plug-In Expansion Module
(one included with UTI312)

