Multiple Tone Generator

Model TG4C

Description

The Model TG4C Multiple Tone Generator is a compact, reliable unit designed to generate four distinct signals: pulsed tone; slow whoop; repeating chime; and steady tone.

It is an excellent source for alarm or pre-announce signals in public address or telephone paging systems. The TG4C will accept a Hi-Z input from a program source, such as a tuner, turntable, cassette player, CD player, etc., and will maintain precedence over the program material for the duration of the contact closure.

Features

- 4 types of tones: steady, pulsed alarm, slow whoop, and chime
- Tones triggered by external contact closure (momentary or long duration)
- Choice of continuous or two-burst tone (except for steady tone)
- Tone generation reset available
- Adjustable tone level and pitch
- Operates on 12 - 48V DC, positive or negative ground
- Built-in precedence over interconnected program source
- Accessory AC adapter (Model PRS40C) available for operation from a 120V AC, 60 Hz source
- 600-ohm output
- Line-matching transformer (Model WMT1A) available for standard 600-ohm telephone line connections
- Screw terminal connections

BOGEN®

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Technical Specifications

Rated Output:	1 volt RMS
Load Impedance:	600 ohms or higher
Signal Specifications	
Pulsed:	Square wave with cycle on-off timing of 1.2 seconds on, 0.4 seconds off, 1.6 seconds on, and frequency range of 650-1300 Hz
Slow Whoop:	Slowly ascending, low to high swept signal with cycle on-off timing of 1.2 seconds on, 0.4 seconds off, 1.6 seconds on, and frequency range of 500-1200 Hz
Chime:	Signal with exponential decay slope of 6.5 seconds, cycle on-off timing of 0.3 seconds on, 0.7 seconds off, and frequency range of 650-1300 Hz
Steady:	Square wave with adjustable frequency range of 650-1300 Hz
Modes of Operation:	Choice of continuous signal (until interrupted) of any of four types or two bursts of pulsed, slow whoop, or chime tone
Controls:	Tone Level, Pitch
Termination:	Screw terminals
Semiconductors:	7 ICs, 4 transistors, 21 diodes
Power Requirements:	12-48V DC (26 mA @ 24V DC), positive or negative ground
Dimensions:	6-3/4" W x 5-3/4" H x 2" D
Shipping Weight:	3 lb.
Finish:	Silver gray
Associated Equipment:	Model PRS40C 120V AC, 60 Hz Power Supply; Model WMT1A Line-Matching Transformer

Architect and Engineer Specifications

The multiple tone generator shall be a Bogen Model TG4C, or equivalent, with a rated output level of one volt RMS into a 600-ohm load.

The device shall be activated by an external contact closure. It shall be capable of generating four distinct signals: (1) pulsed alarm tone, (2) slow whoop, (3) repetitive chime, and (4) steady tone signal.

The pulsed signal shall be a square wave with cycle on-off timing of 1.2 seconds on, 0.4 seconds off, 1.6 seconds on, and a frequency range of 650-1300 Hz. The slow whoop signal shall be a slowly ascending, low to high swept signal with cycle on-off timing of 1.2 seconds on, 0.4 seconds off, 1.6 seconds on, and a frequency range of 500-1200 Hz. The chime tone shall be a signal with exponential decay slope of 6.5 seconds, cycle on-off timing of 0.3 seconds on, 0.7 seconds off, and a frequency range of 650-1300 Hz. The steady tone shall be a square wave with adjustable frequency range of 650-1300 Hz. The all-solid-state unit shall offer a choice of continuous signal of any of the four tone-types or double-burst signal of any tone type except the steady tone.

The tone generator shall accommodate input from a high-level program source. Built-in precedence shall allow the tone signal to override program material. When used with a public address amplifier, the unit shall be capable of pre-announce signalling of a voice announcement over the program source.

Both the output level and pitch control shall be adjustable. The unit shall operate from 12-48V DC, positive or negative ground. Construction shall be steel, finished in silver gray. The overall dimensions shall be 6-3/4" W x 5-3/4" H x 2" D. The shipping weight shall be 3 lb.

BOGEN®
COMMUNICATIONS, INC.
50 Spring Street, Ramsey, NJ 07446
201-934-8500 FAX: 201-934-9832
www.bogen.com