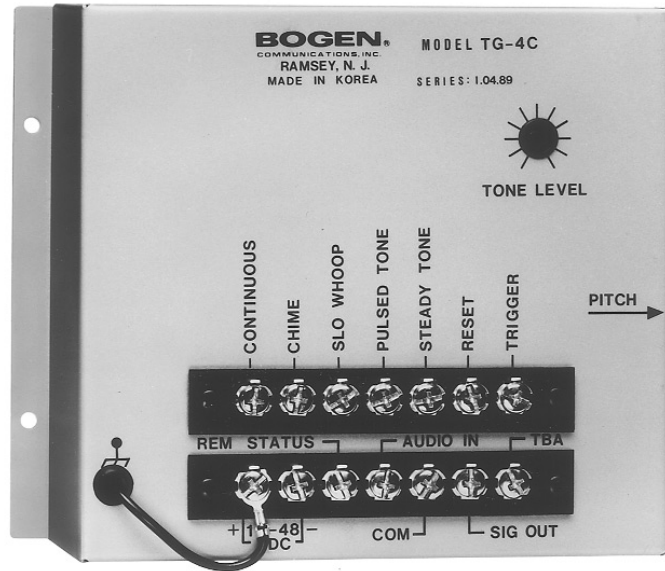


# Multiple Tone Generator

## Model TG-4C



### Features

- Choice of four signal types: pulsed alarm tone, slow whoop, chime, and steady tone
- Operates on 12 - 48VDC, positive or negative ground
- Choice of continuous or two-burst tone
- Activation by external contact closure
- Built-in precedence over interconnected program source

### Description

The Model TG-4C Multiple Tone Generator is a compact, reliable unit designed to generate four distinct signals:

- pulsed tone
- slow whoop
- repeating chime
- steady tone

It is an excellent source for alarm or preannounce signals in public address or telephone paging systems. Each of the four signals may be applied continuously (until interrupted), or limited to a double-burst (except for the steady tone) for preannounce applications. Signals are triggered by an external device providing a contact closure. The output level and pitch control are adjustable.

The TG-4C will accept a Hi-Z input from a program source, such as a tuner, turntable, cassette player, etc., and will maintain precedence over the program material for the duration of the contact closure.

The unit may be powered from any 12-48VDC source, positive or negative ground. An accessory AC adapter (Bogen Model PRS-40C) is available for operation from a 120VAC, 60Hz source. The Bogen Model WMT-1A Line-Matching Transformer is available for standard 600-ohm telephone line connections. All connections are made at conveniently located screw terminals. Ruggedly constructed, the TG-4C is fabricated of steel and is finished in silver gray.

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**Technical Specifications**

<b>Rated Output:</b>	1 volt RMS
<b>Load Impedance:</b>	600 ohms or higher
<b>Signal Specifications</b>	
<b>Pulsed:</b>	Square wave with cycle on-off timing of 1.2 seconds on, 0.4 seconds off, 1.6 seconds on, and frequency range of 650-1300Hz
<b>Slow Whoop:</b>	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 500-1200Hz
<b>Chime:</b>	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 650-1300Hz
<b>Steady:</b>	Square wave with adjustable frequency range of 650-1300Hz
<b>Modes of Operation:</b>	Choice of continuous signal (until interrupted) of any of four types or two bursts of pulsed, slow whoop, or chime tone
<b>Controls:</b>	Tone Level, Pitch
<b>Termination:</b>	Screw terminals
<b>Semiconductors:</b>	7 ICs, 4 transistors, 21 diodes
<b>Power Requirements:</b>	12-48VDC (26mA @ 24VDC), positive or negative ground
<b>Dimensions:</b>	6- <sup>3</sup> / <sub>4</sub> "W x 5- <sup>3</sup> / <sub>4</sub> "H x 2"D (17 x 14.6 x 5cm)
<b>Shipping Weight:</b>	3 lbs. (1.4kg)
<b>Finish:</b>	Silver gray
<b>Associated Equipment:</b>	Model PRS-40C 120VAC, 60Hz Power Supply; Model WMT-1A Line-Matching Transformer

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**Architects and Engineers Specifications**

The multiple tone generator shall be a Bogen Model TG-4C, 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 650-1300Hz. 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 500-1200Hz. 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 650-1300Hz. The steady tone shall be a square wave with adjustable frequency range of 650-1300Hz. 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 preannouncement signalling of a voice message over the program source.

Both the output level and pitch control shall be adjustable. The unit shall operate from 12-48VDC, positive or negative ground. Construction shall be of steel, finished in silver gray. The overall dimensions shall be 6-<sup>3</sup>/<sub>4</sub>" x 5-<sup>3</sup>/<sub>4</sub>" x 2". The shipping weight shall be three pounds.



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