

## AES TONE GENERATOR 812-OP/M



MADE IN THE USA



### For Future Generations

The GenFlex 812-OP/M is a high performance 24 bit digital audio generator. The 812-OP/M is a single module for use with the SPG-812 GenFlex frame. The function of this module is to produce a single AES/EBU digital audio signal for use as a digital tonesource or as a digital audio timing reference.

The generator has a set of features designed to make it fit into a wide variety of applications. These features include genlocking of the audio to digital or analog video within the Genflex frame. Also, the user may select to have this module free run with its high stability oscillator. Internally, the creation of the audio tone is done with a 24 bit audio "wave table" stored in ROM. The output from the ROM is formatted and output as digital audio. The user may select the amplitude and frequency of the audio tone from a fixed set of 8 combinations. Within this set of eight there are three frequencies (1KHz, 400Hz, 60Hz) and three levels (0dBFS, -10dBFS, -20dBFS)\* The module has the ability to produce "digital silence" or one of the eight combinational tones on the output.

There are three digital outputs conforming with the AES3-ID interconnection standard. This generator runs at the professional sample rate frequency of 48kHz. LEDs are used to indicate tone frequency and level, digital silence, lock status, and power indication. Further, the user has control of some of the user status bits through dip switches on the module.

The GenFlex audio generator is built with quality throughout the unit. With its ability to produce 24 bit digital audio, it can produce the highest resolution audio available in the AES3 format. The 812-OP/M is an addition to Link's GenFlex family of analog/digital generator products. It is designed to reside in LINK'S SPG-812 frame in any of the five auxiliary slots with a possible total of five modules plus one 812-OP/E audio module.

\* 60Hz tone has 2 levels (0dBFS and -20dBFS). The other tones have three levels.

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# 812-OP/M DIGITAL TONE GENERATION

## SPECIFICATIONS

Type ..... digital, wave table  
Resolution ..... 24 bits  
Sample Rate ..... 48kHz

### DIGITAL OUTPUT

Interconnection  
Number ..... Three  
Standard ..... AES3-ID  
Connector ..... BNC  
Impedance ..... 75 ohms  
Level ..... 1Vpp  $\pm$ 0.2V  
Jitter ..... < 0.08UIpp

### Tone Data

Type ..... Sine Wave  
Frequencies ..... 1kHz, 400Hz, 60Hz  
Nominal Levels  
Audible ..... 0dBFS, -10dBFS\*\*, -20dBFS  
Digital Silence ..... -144dBFS\*\*\*  
Level Accuracy .....  $\pm$ 0dB  
Total Harmonic Distortion ..... < 0.0007%  
Total Harmonic Distortion + Noise ..... < 0.0002%

### ENVIRONMENTAL

Operational Temperature Range ..... 0 to 60°C ambient  
Humidity ..... 10% to 90% non-condensing  
Power ..... >3W  
Supply Voltage ..... +5VDC, provided by SPG-812 frame

### MECHANICAL

Dimensions  
Length ..... 10.0 inches  
Width ..... 4.27 inches  
Height ..... 0.50 inch maximum  
Weight ..... 6.0 OZ.

**LINK ELECTRONICS, INC.**

2137 Rust Avenue  
Cape Girardeau, MO 63703  
Phone: 573 334 4433  
FAX: 573 334 9255

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