

Model 9070 System

MEMS DRIVER SYSTEM

- Complete Set of Software Tools
- Precise Signal Generation
- 0 to 150 V Peak Output Voltage
- 4 Channel Splitter
- Event Trigger Signals
- Internal Crystal Oscillator Reference
- GPIB Interface

MEMS Driver System

System Overview

TEGAM's 9070 MEMS Driver System is an accurate, highly stable signal source designed to drive MEMS rotating microengines. This high-voltage, multi-channel, totally integrated system provides the necessary waveforms and instrument controls to drive MEMS devices with maximum reliability. Signal parameter stability is based on the digital synthesis techniques applied throughout the system. Frequency stability is assured by the internal crystal reference. Output frequencies range from dc to 5 kHz (equivalent to 1 to 300,000 RPM), and the waveform fidelity is outstanding.

A typical system consists of Super μ Driver Software, two 2414A-GS Waveform™ Generators, and one 2375 MEMS Driver Amplifier

providing four flexible output channels. The channels may be operated in pairs using the built-in splitter or individually. The waveform generator may be programmed to output ideal MEMS drive signal, sinewaves, squarewaves, or any arbitrary waveshape. Amplifier gain is fixed at x15 and the signal amplitude is set at the waveform generator.

Remote Programming

All four channels are remotely programmed using IEEE-488.2 (GPIB). Waveforms and drive parameters for each channel may be created and downloaded using Sandia's Super μ Driver™ software. The versatility of the 9070 accommodates complete parameter control. This maintains the flexibility requirement for MEMS microengine development.



Prices and specifications subject to change without notice.

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