View metadata, citation and similar papers at core.ac.uk

October 1967

brought to you by TCORE

Brief 67-10386

## NASA TECH BRIEF



NASA Tech Briefs are issued to summarize specific innovations derived from the U.S. space program, to encourage their commercial application. Copies are available to the public at 15 cents each from the Clearinghouse for Federal Scientific and Technical Information, Springfield, Virginia 22151.

## **Continuous Wave Detector Has Wide Frequency Range**

A small, portable, battery-operated detector, designed to monitor electronic equipment used in the Saturn II program, indicates the presence of steady state signals exceeding a predetermined value over a wide frequency range. The indication is provided by the closure of output relay contacts. The contact closure occurs and is maintained when the steady state input signal is within the frequency range from 400 Hz to 500 MHz and the amplitude of this signal exceeds a preset threshold voltage within the dynamic range of 1.0 millivolt to 3.0 volts rms. The threshold voltage is manually adjustable within the dynamic range of the detector. The frequency range of the detector is divided into two frequency bands: namely, an LF band extending from 400 Hz to 200 kHz and an HF band extending from 200 kHz to 500 MHz. Band selection is accomplished by a manually operated switch.

## Note:

Inquries concerning this circuit may be directed to: Technology Utilization Officer Marshall Space Flight Center Huntsville, Alabama 35812 Reference: B67-10386

## Patent status:

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code GP, Washington, D.C. 20546.

> Source: W. F. Deutsch, S. J. Jarminski, and C. E. Wheatley of North American Aviation, Inc. under contract to Marshall Space Flight Center (MFS-1849)

This document was prepared under the sponsorship of the National Aeronautics and Space Administration. Neither the United States Government nor any person acting on behalf of the United States Government assumes any liability resulting from the use of the information contained in this document, or warrants that such use will be free from privately owned rights.