

## 436a Power Meter Manual

The Experiment Control and Monitor (EC & M) software was developed at NASA Lewis Research Center to support the Advanced Communications Technology Satellite (ACTS) High Burst Rate Link Evaluation Terminal (HBR-LET). The HBR-LET is an experimenter's terminal to communicate with the ACTS for various investigations by government agencies, universities, and industry. The EC & M software is one segment of the Control and Performance Monitoring (C & PM) software system of the HBR-LET. The EC & M software allows users to initialize, control, and monitor the instrumentation within the HBR-LET using a predefined sequence of commands. Besides instrument control, the C & PM software system is also responsible for computer communication between the HBR-LET and the ACTS NASA Ground Station and for uplink power control of the HBR-LET to demonstrate power augmentation during rain fade events. The EC & M Software User's Guide, Version 1.0 (NASA-CR-189160) outlines the commands required to install and operate the EC & M software. Input and output file descriptions, operator commands, and error recovery procedures are discussed in the document. The EC & M Software Maintenance Manual, Version 1.0 (NASA-CR-189161) is a programmer's guide that describes current implementation of

the EC & M software from a technical perspective. An overview of the EC & M software, computer algorithms, format representation, and computer hardware configuration are included in the manual.

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June issues, 1941-44 and Nov. issue, 1945, include a buyers' guide section.

Catalog of Copyright Entries. Third Series 1975: July-December Copyright Office, Library of Congress  
A 10 Cm Dual Frequency Doppler Weather Radar  
A quality assurance/fault location network

Some issues, 1943-July 1948, include separately paged and numbered section called Radio-electronic engineering edition (called Radionics edition in 1943).

A functional description of an automatic radar system performance monitoring network is presented. A network of microprocessor controlled monitoring units were interfaced to various sensors at key areas in a Doppler weather radar in order to collect system status information and display it at a central point near the operator's console. This status information is displayed on a color terminal in a way that allows the systems operator to verify the proper operation of the radar with just a cursory glance at the

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terminal. Fault location and fault tolerant techniques were employed to provide the system user with quality assured data.

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