



AN/USM-643 MOBILE ELECTRONICS TEST SET / AN/USM-617(V1) RADIO FREQUENCY MOBILE ELECTRONICS TEST SET

A COMPACT, COMPREHENSIVE AVIONICS TEST SUITE IN A MANPORTABLE PACKAGE

The combined AN/USM-643 Mobile Electronics Test Set (METS) and the AN/USM-617(V1) Radio Frequency Mobile Electronics Test Set (RFMETS) is a general purpose intermediate-/depot-level set of automatic test equipment. The system is comprised of five main units: the Computer Control Memory Unit, the Signal Generator Converter, Converter Interface, Radio Frequency (RF) Measurement Unit and the RF Stimulus Unit. This testing capability includes testing, fault detection and isolation of a line-replaceable unit to a shop-replaceable unit, or shop-replaceable unit to a group of components, and features dynamic, real-time functional test capability, resulting in high test throughput and improved test times.

METS REMETS

HIGHLIGHTS

- Color liquid crystal display operator interface
- Touch screen for optimum operator interaction
- Integral video monitor capability for viewing external video signals
- Removable disk accommodates an unlimited number of test program sets
- High speed, simultaneous, parallel analog and digital stimulus and measurement
- Provides general purpose radio frequency and microwave stimulus/measurement functions for radar and other microwave devices
- Dynamic, real-time testing maximizes line replaceable unit (LRU) throughput
- System plug-in unit provides specific stimulus, measurement and loads to support a family of units under test
- Networked architecture provides multiprocessing and multi-tasking capability
- PC-based software development system for ATLAS test program sets and system software support
- Field-proven avionics support for radars, controls, armaments, displays and communications aircraft
- Dynamic, real-time, functional test capability means high LRU throughput with 20% of original test times

METS/RFMETS OPERATIONAL STRENGTHS

Flexibility enables worldwide deployability

- Fits on one standard pallet
- Manportable
- Elements weigh less than 54.4 kg / 120 lbs
- 45 minute set-up time
- Avionics-unique plug-in units tailor RFMETS for specific weapon system applications

OPEN ARCHITECTURE ENABLES EXPANSION, INTEROPERABILITY

Weapon system transparent

- Ethernet interface
- Dynamic test at avionics interface
- Parametric test of critical signal interfaces
- 100% spare memory
- Handles classified data
- Creates virtual instruments
- Compatible with avionics built-in test
- Reconfigurable using modular microwave system / versa modular Euro card bus extensions for instrumentation

Specifications subject to change without notice.