



EDO corporation
GLOBAL TECHNOLOGY REACH

AN/PLM-4 RSS

AN/PLM-4 (RSS)

Radar Signal Simulator

Applications: Airborne (Fixed Wing and Helicopter), Naval Surface, and Naval Submarine

EDO's Radar Signal Simulator (RSS) AN/PLM-4 is a user programmable, lightweight, highly mobile test set that generates pulse and scan modulated Radio Frequency (RF) signals. Using internal antennas, the RSS radiates toward the System Under Test (SUT), allowing the user to evaluate the SUT operation or perform diagnostics. The RSS is self-contained and operates from internal batteries or external AC power. The RSS can be hand carried and operated by a single person.

The RSS can be used for testing Pods, On-Board Self-Protection Electronic Countermeasures Systems, Radar Warning Receiver (RWR) Systems and Electronic Warfare Support Measures (ESM) Systems. With the RSS Remote Terminal, the user can be seated in the aircraft under test and visually determine the operability of the RWR by observing the SUT displays. The Remote Terminal allows the user to control the functions of the RSS. The RSS can also be connected directly to the SUT for testing and troubleshooting, bypassing the antennas. The RSS can be used as an end-of-runway or dockside pre-mission tester, with scenario capability allowing for rapid testing.



SYSTEM SPECIFICATIONS

FREQUENCY RANGE: <input type="checkbox"/>	Fully tunable 500 MHz to 18 GHz, options to 40 GHz
PULSE REPETITION INTERVAL TYPES: <input type="checkbox"/>	Jitter, Stagger, and Guidance Triplets
FULLY PROGRAMMABLE SCAN: <input type="checkbox"/>	Standard scan patterns and advanced waveforms
PROGRAMMING: <input type="checkbox"/>	Menu driven from the keyboard or PC software (supplied)
POWER: <input type="checkbox"/>	Universal AC, auto-switching AC input or battery
POWER SAVING FEATURE: <input type="checkbox"/>	Operator selected energy saver mode
BATTERIES: <input type="checkbox"/>	Two (2) removable, extended life Lithium Ion batteries
EMITTER MEMORY: <input type="checkbox"/>	Rugged all-weather removable emitter memory module
CARRYING HARNESS: <input type="checkbox"/>	OSHA compliant design
REMOTE OPERATION: <input type="checkbox"/>	Remote handheld keyboard for operation up to 1000 Ft (300m) Optional RF remote for end-of-runway crew trigger
SCENARIO OPERATION: <input type="checkbox"/>	Up to 100 emitters for end-of-runway testing
EXTERNAL SYNCHRONIZATION: <input type="checkbox"/>	Allows for true multi-beam generation with multiple RSS units
ENVIRONMENTAL: <input type="checkbox"/>	Designed to MIL-T-28800; Class C; Type II
OPERATING TEMPERATURE RANGE: <input type="checkbox"/>	-40° C to +55° C
WEIGHT: <input type="checkbox"/>	Twenty Five (25) lbs. (12 kg)

FEATURES

- Programmable Emitter Parameters
- Emitters Programmed via Front Panel or Remote Terminal
- Lightweight/One Man Portable
- Internal Battery Power
- Built-In or External Battery Charger
- Threat Library Stored on Removable Media
- Extensive Built-In-Test for Easy Repair
- Remote Operation for Crew Station Testing up to 1,000 Feet from the Unit
- Small Unit Footprint (1 cubic foot) Conducive to Rapid Deployment

Cleared, OFISR Number 04-S-0442

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