

AN/PLM-4 RFMD

Radio Frequency Measurement Device



EDO corporation
GLOBAL TECHNOLOGY REACH

AN/PLM-4

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The **Radio Frequency Measurement Device (RFMD)** accessory is designed to be used in conjunction with the **AN/PLM-4 Radar Signal Simulator (RSS)**. The **RFMD** is a lightweight, battery powered, portable test set that performs comprehensive end-to-end tests of Electronic Countermeasures (ECM) Systems. The **RSS/RFMD** operator is able to evaluate the ECM system functions such as receiver sensitivity, parameter encoding, and power output. In addition, the **RSS/RFMD** combination can be used as a diagnostic tool to fault detect/fault isolate malfunctions within the ECM system-under-test (SUT). Transmitter response functions include measurement of center frequency, power, transponder spot-width, and jam window. Tests are accomplished using existing or supplied antenna couplers. The **RFMD** is self-contained and operates from internal batteries or external AC power. The **RSS/RFMD** combination is controlled using a rugged laptop PC. The user can be located at the SUT control and displays and determine the operability of the ECM system by monitoring the SUT and RFMD controller. The test set will operate in a fully automatic mode using a SUT specific test program or the operator can perform manual tests for diagnostic purposes. The SUT automatic test program is developed using test program development software, which is supplied as an independent software package.



SPECIFICATIONS

FREQUENCY RANGE:	500 MHz to 18 GHz
FREQUENCY RESOLUTION:	1 MHz
FREQUENCY SPAN:	10, 100, 500, 1000, 5000 MHz
FREQUENCY DOMAIN SWEEP TIME:	Auto Couple with Frequency Span
AMPLITUDE RANGE:	-65 to +30 dBm
AMPLITUDE RESOLUTION:	1dB
INPUT ATTENUATION:	0, 20 dB
DIRECT / ANTENNA CONNECTION:	Yes
MANUAL ANALYZER MODE:	Yes
AUTOMATIC MEASUREMENT:	Center Frequency, Power, PRI, PW
USER DEFINED FUNCTIONS:	Menu Driven from PC software
POWER:	Battery or universal AC, auto-switching input, self-contained battery charger
BATTERIES:	2 Removable Lithium Ion, extended life
ENVIRONMENTAL:	Designed to MIL-T-28800; Class C; Type II
TEMPERATURE RANGE:	-40 C to +55 C Operating, -55 C to +85 C Non-Operating
WEIGHT:	25 lbs. (12 kg)

FEATURES

- Programmable Measurement Routines
- Manual Spectrum Analyzer Functions
- Lightweight/One Man Portable
- Internal Battery Power
- Built-In or External Battery Charger
- Built-In-Test for easy maintenance
- Remote operation for crew station
- Small Unit Footprint (1 Square foot)
- Conducive for Rapid Deployment