

Countermeasures Signal Simulator (CSS)



Optical Countermeasure Simulator

The Countermeasures Signal Simulator (CSS) is a lightweight test set that meets flight-line ruggedized requirements to allow testing all versions of the AN/AAR-47(V)2 Missile Warning Systems. With multiple operation modes, the CSS allows a dynamic operational test to verify missile warning function.

Modes	Validation	Distance From Sensor
1	Short-range functional test	flush to 2m
2	Long-range functional test	2 to 15 m
3	UV sensitivity test	flush
5	Dynamic blanking test	flush
6*	UV missile-warning test (uses programmable key)	flush

* Mode 6 provides an end-to-end test from the UV input to the sensor through to the Countermeasures Dispensing Set (CMDS) test set.



Countermeasures Signal Simulator (CSS) Features

- Operates on AA commercial batteries - No warm-up period required
- Separate standby/off switch
- Lightweight: 3.5 lbs.
- Compact: 11" X 9"
- Operation to -40° C (using lithium batteries)

Built-in Tests:

- Low-battery indicator
- Operational BIT

CSS is adaptable to future growth, including variable configurations:

- 3 spare modes
- Programmable output
- Modular design supports hardware and firmware upgrades

Unclassified data in key as delivered

- Proximity sensor restricts usage to flush mount
- If user chooses to re-program key, additional key marking can be added

Safety-hazard scores acceptable per MIL-STD-882D

For information contact:
ATK Defense Electronics Systems
P.O. 4648
Clearwater, Florida 33758-4648
Work: (727) 572-2516
E-mail: DefenseElectronicsSystems.BDev@atk.com



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