

PORTABLE FLIGHT TERMINATION SYSTEM

DATA SHEET & TECHNICAL SPECIFICATIONS



Features

- ▶ Includes: Command Control Unit, Remote
- ▶ Monitor Unit, Remote Control Unit
- ▶ IRIG 313-01 Compliant
- ▶ Redundant RF Power Amplifiers
- ▶ Automatic 1:1 Redundancy
- ▶ Fault Detection
- ▶ Primary and Redundant Modes of Operation
- ▶ Remote Control
- ▶ Command Tone Verification
- ▶ Ruggedized Design

The Flight Termination System (FTS) is a redundant self-contained, portable 425 MHz wideband FM system that can transmit the necessary codes to Monitor, Arm, and Destroy a missile in flight.

The FTS consists of a Transmitter Systems and a Receiver System. The Command Control Unit (CCU) is the Transmitter System used for encoding IRIG flight termination commands. The Remote Monitor Unit (RMU) is the Receiver System for detecting, decoding, and monitoring commanded signals from the CCU. A Remote Control Unit (RCU) is also included for initiating

FTS commands remotely from the CCU.

The FTS is currently available with CCU transmitter configurations for 15 Watt, 25 Watt, and 50 Watt RF Output Power.

Applications

- ▶ Range Safety
- ▶ 15, 25, and 50 Watt RF transmitter configurations available

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Electrical

- ▶ Carrier Frequency: 425 MHz
- ▶ Carrier Frequency Tolerance: +/- .0005%
- ▶ Tone Frequencies:
 - Tone 1 7.50 kHz
 - Tone 2 8.46 kHz
 - Tone 4 10.76 kHz
 - Tone 5 12.14 kHz
- ▶ Tone Frequency Tolerance: +/- 0.1
- ▶ RF Output Power: 15 Watts, 25 Watts, or 50 Watts
- ▶ Modulation: Wideband FM

Power Requirements

- ▶ Input Voltage: Available for DC input voltage or AC input voltage applications

Operational

- ▶ Tone Sequences:
 - MONITOR – Apply Tone 5
 - ARM – Add Tone 1 to Tone 5
 - DESTRUCT – Remove Tone 5 and add Tone 2 to Tone 1
- ▶ Time Between Commands: 500 ms
- ▶ Fault Detection:
 - RF Output Power
 - Transmit Tone ≠ Monitored Tone

Mechanical

- ▶ Equipment Enclosure: Aluminum Zero Case
- ▶ Cooling: Fans mounted directly to RF power amplifiers

Options

- ▶ Antenna
- ▶ RF Power Meters
- ▶ RF Power Levels
- ▶ Input Voltage
- ▶ Command Tone Configurations

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