



Product Sheet

Flight Termination System

FLIGHT TERMINATION SYSTEM

The Kratos Flight Termination System (FTS) is a rack-mounted unit designed for use with unmanned aerial vehicles, missile systems, and aerial target drones. It complies with IRIG 313-01 and 319-07 standards and provides command and control functions for terminating or managing flights during test or operational missions.

The system accepts AC power and produces a modulated RF output used to communicate with compatible flight-termination receivers such as the Herley HFTR60. The front panel includes protected MONITOR, ARM, and DESTRUCT switches for controlling up to two airborne vehicles, along with indicators and a meter for monitoring system status and power input.

An optional backup battery can maintain operation for up to 15 minutes. The FTS generates command tones internally and transmits a carrier signal continuously at startup. MONITOR and ARM can be activated independently, while DESTRUCT requires ARM to be engaged first. Utilizing modular components and a variety of custom features, the Kratos FTS is designed to provide mission flexibility and enhance range safety procedures.



Features

- 200W or 500W RF Power Output

- IRIG 313 and 319 Compliant

- EIA 19" Rack Components

- Modular Design for Mission Flexibility

- Local and Remote Control Options

- Independent Control of up to two Vehicles

- MONITOR, ARM, and DESTRUCT Commands

- Universal AC Input Power

Applications

- Range Safety

- Development and Lot Testing

FLIGHT TERMINATION SYSTEM

Transmitter System

Power Input:	Universal Input: 115 VAC to 230 VAC, 50 to 60 Hz
Carrier Frequency:	User Adjustable between 406 – 450 MHz in 100 kHz steps
Tone frequencies:	1, 2, 3, 5, 6 and 7 per IRIG 313-01
Carrier Frequency Stability:	±.0005%
Power Output:	200 or 500 Watts (nominal)
Output Impedance:	50 ohms
Output Connection:	Type N Female
Modulation:	Wideband FM, ±30 kHz per tone
Spurious Outputs:	-50 dBc
Vehicle 1 Commands:	MONITOR – Apply Tone 5 (12.14 kHz) ARM – Apply Tone 1 (7.50 kHz) to Tone 5 DESTRUCT – Remove Tone 5, Add Tone 2 (8.46 kHz) to Tone 1
Vehicle 2 Commands:	MONITOR – Apply Tone 6 (13.70 kHz) ARM – Apply Tone 3 (9.54 kHz) to Tone 6 DESTRUCT – Remove Tone 6, Add Tone 7 (15.45 kHz) to Tone 3
Protection:	RF Output protection, Circuit Breaker/Fuse protected
Enclosure:	EIA 19" Shockmount case
Dimensions:	28.5 x 22.5 x 21.6 inches
Weight:	Less than 120 lbs

Receiver System

Power Input:	Universal Input: 115 VAC to 230 VAC, 50 to 60 Hz
Carrier Frequency:	User Adjustable between 406 – 450 MHz in 100 kHz steps
Tone frequencies:	1, 2, 3, 5, 6 and 7 per IRIG 313-01
Sensitivity	-106 to -115 dBm
Maximum Input Power:	+13 dBm
Vehicle 1 Commands:	MONITOR – Apply Tone 5 (12.14 kHz) ARM – Apply Tone 1 (7.50 kHz) to Tone 5 DESTRUCT – Remove Tone 5, Add Tone 2 (8.46 kHz) to Tone 1
Vehicle 2 Commands:	MONITOR – Apply Tone 6 (13.70 kHz) ARM – Apply Tone 3 (9.54 kHz) to Tone 6 DESTRUCT – Remove Tone 6, Add Tone 7 (15.45 kHz) to Tone 3
Protection:	RF Output protection Circuit Breaker/Fuse protected
Enclosure:	EIA 19" Shockmount case
Dimensions:	24 x 22.5 x 9.3 inches
Weight:	Less than 50 lbs
Equipment Enclosure:	Standard 19 inch transit case with Front and Rear covers and shock mounted internal frame