

FLIGHT TERMINATION SYSTEM

DATA SHEET & TECHNICAL SPECIFICATIONS



Features

- ▶ IRIG 319 compliant command signals
- ▶ Redundant transmitters
- ▶ Fault Detection
- ▶ Ethernet interface for remote control, monitoring and antenna positioning data
- ▶ Data recording and time stamping
- ▶ Command tone verification
- ▶ Automatic 1:1 redundancy
- ▶ Field serviceable and upgradeable

Applications

- ▶ Airborne platforms
- ▶ Range safety

The Flight Termination System (FTS) is a turn-key system capable of transmitting MONITOR, ARM, and TERMINATE flight termination encoded command signals as well as the 20 individual IRIG tones up to 6 simultaneously. The system can be manually or automatically switched between transmitters, includes fault monitoring, audio alarms, data recording and system time stamping, and full remote control operation and configuration. The system is ready for installation in E.I.A. 19 inch standard racks for mobile platforms or in transportable cases high portability.

The redundant transmitter system generates a 1000W Wideband FM signal that can be routed to two pedestal

antennas for full redundant operation. FTS commands are initiated either at the Command Control Unit (CCU) front panel when in Local Mode or from the remotely located Master Control Module via Ethernet link when in Remote Mode. The initiated command signals are IRIG-319 compliant and compatible with the Herley Industries HFTR60 (or compatible) Flight Termination Receivers (FTR).

The FTS also includes a command verification Receiver Monitor Unit (RMU) complete with Omni-antenna kit for monitoring transmitted commands from a remote location. The RMU interfaces to the FTS via Ethernet link for data recording and time stamping capability.

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Command Control Unit

- ▶ Carrier Frequency: 406 MHz to 450 MHz, adjustable in 100 kHz steps, +/- .005%
- ▶ Tolerance
- ▶ FTS Commands: MONITOR, ARM, TERMINATE
- ▶ IRIG Tone Frequencies: 1 – 20 (up to 6 on simultaneously), Tolerance +/-0.1
- ▶ Exciter Output Power: 0 dBm
- ▶ Modulation: Wideband FM
- ▶ Interface: Ethernet
- ▶ Prime Power: Universal AC - 115 to 230 VAC, 50-60 Hz
- ▶ Equipment Enclosure: Standard 19 inch transit case with Front and Rear covers and shock mounted internal frame
- ▶ Feature Enhancements: Data Recording/Event Time Stamp, Fault Detection, Audio Alarm, Manual/Auto Switchover
- ▶ Indicators: Illuminated LED's

1000 W RF Power Amplifier Module


- ▶ Frequency Range: 400 MHz to 450 MHz
- ▶ Output Power: 1000 Watts (typical)
- ▶ Power Input: 0 dBm
- ▶ Prime Power: 180 to 260 VAC, single phase
- ▶ Equipment Enclosure: E.I.A. Standard 19", 5U High, 22" deep, 80lbs
- ▶ Display: Fwd/Rev Power, Gain Adjustment, ALC Fast/Slow, On/Off, Fault Indication,
- ▶ Interface: Ethernet

Receiver Monitor Unit

- ▶ Frequency Band: 406 MHz to 450 MHz, adjustable in 100 kHz steps
- ▶ Sensitivity: -107 dBm
- ▶ Response Time: 15ms nominal
- ▶ Prime Power: 115 to 230 VAC, 50-60 Hz
- ▶ Equipment Enclosure: Standard 19 inch transit case with Front and Rear covers and shock mounted internal frame


System Includes

- ▶ 2 Command Control Units
- ▶ 2 High Power RF Amplifiers
- ▶ 1 System Failover Controller
- ▶ 1 Master Control Console
- ▶ Associated cabling
- ▶ 1 Receiver Monitor Unit w/ associated antenna kit
- ▶ Ethernet Switch
- ▶ Operation Manual
- ▶ Training

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