

Honeywell RESCU 406® AFN

Honeywell



TRIPLE FREQUENCY 406/243/121.5 MHz.
GPS INTERFACE. LOW COST OF OWNERSHIP.

**Automatic Fixed Navigation
Emergency Locator Transmitter**

Honeywell RESCU 406® AFN

Emergency Locator Transmitter

Designed to provide emergency transmission for aircraft flying over land, Honeywell's RESCU 406® AFN Emergency Locator Transmitter (ELT) automatically transmits a digitally encoded signal upon impact in the event of a crash. With a state-of-the-art, triple frequency transmitter and an extended battery life of ten years, the unit is approved for use on numerous commercial aircraft. The RESCU 406® AFN can also simplify fleet management through an optional Aircraft Identification Module (AIM) that automatically reprograms the transmitter unit, making it easy to move the ELT from one aircraft to another.

An optional Navigation Aircraft Interface Module (NAIM) can perform the same functions as the AIM plus allow the transmission of latitude/longitude information in the 406 MHz signal from the aircraft navigation system to speed up finding the aircraft in the event the system is activated:

1. Transmitter Unit Features

- Triple frequency
- Digital 406 MHz and analog 121.5/243 MHz signals
- Automatic activation by internal G-switch
- 406 MHz digital message programmed to any of five protocols:
 - Serialized Aviation User Protocol
 - Aviation User Protocol
 - Aircraft 24-bit Address Protocol



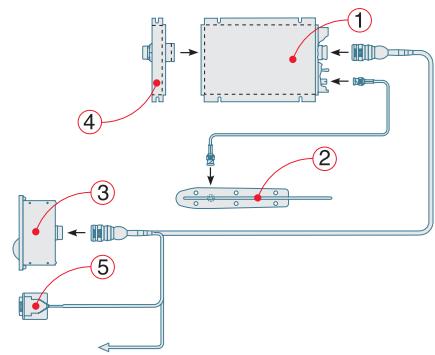
- Aircraft Operator Designator and Serial Number Protocol
- Serial Number Protocol
- Single connector/cable to antenna
- Single battery pack powers all ELT system LRU's
- Battery service life of ten years, including routine system self tests
- Battery replacement without removing transmitter unit from aircraft
- System self-test validates battery voltage, transmitter power, remote panel and Aircraft Identification Module (AIM)
- Interfaces with aircraft maintenance/warning systems, remote panel, AIM and antenna.
- RESCU 406 AFN is 100% backward compatible with RESCU 406AF

2. Antenna Features

- Triple frequency radiation at 121.5/243/406.028 MHz
- Single antenna connector and cable to transmitter

3. Remote Panel Features

- Three position switch to activate/reset transmitter unit/initiate system self-test
- Indicator light shows transmitter unit activation and system self-test
- Four 22AWG wires to transmitter unit provide full functionality
- Enhanced functionality through external wiring:
 - Alternate connection point for remote audible alarm
 - Master caution pulse/master caution steady state
 - Master lighting test
 - Panel backlighting
- Recessed switch/guard avoids unwanted contact.



4A. Optional AIM Features

- Automatic programming of transmitter unit
- No removal from aircraft required for routine maintenance
- Powered from a transmitter unit so no battery is required
- Provides interface to 24-bit discreet block switch for manual programming.

4B. Optional NAIM Features

- Automatic programming of transmitter unit
- No removal from aircraft required for routine maintenance
- Provides interface to 24-bit discreet block switch for manual programming.
- Standard Location Protocols
 - Serial identification location protocol
 - 24 bit serial number location protocol
 - Aircraft operator designator and serial number location protocol
- User Location Protocols
 - Serial number user protocol
 - Aircraft nationality and registration markings user protocol
 - 24 bit serial number user protocol
 - Aircraft operator designator and serial number user protocol

5. Remote Audible Alarm Features

- Audible indication of transmitter activation
- Connection to transmitter unit or remote panel.

Technical Specifications (Transmitter Unit)

Frequencies:	121.5/243/406.028 MHz
Frequency tolerance:	±0.005% (121.5/243 MHz), ± 2 KHz (406.025 MHz)
RF output power:	150 mW typical (121.5/243MHz, 5 Watts ± 2 dB (406 MHz)
Dimensions:	10.14in 257mm (L) X 6.54in 166mm (W) 3.622in 92mm (H)
Weight:	6.6lb (3.0kg) includes battery
Battery type:	Lithium
Battery life:	Operating life – 50 hours
Battery service life:	Ten years including effects of periodic monthly test
Operational altitude range:	-4,580 to +50,000ft (15,200m)
Temperature range:	Storage -55°C to +85°C; operating -20°C to +55°C
G-switch specifications:	North America – RTCA/DO 204; Europe – EUROCAE ED-62
Case material:	Aluminum Alloy
Activation alerts:	Visual (LED)
System self-test:	Five second duration – validates battery voltage and other output power, 406 MHz transmission coded with test protocol
Message protocols:	Serial Number Protocol; Serialized Aviation User Protocol; Aviation User Protocol; Aircraft 24-bit Address Protocol; Aircraft Operator Designator and Serial Number Protocol, Standard Location Protocol, User Location Protocol
Certified by:	Transport Canada (TC); USA Federal Aviation Administration (FAA); COSPAS-SARSAT
Specifications:	TSO-C91a, TSO-C126 (FAA); RTCA/DO-183, RTCA/DO-204; C/S T.001 (COSPAS-SARSAT); EUROCAE ED-62

How the System is Designed to Work

1. RESCU 406 AFN distress signal transmitted
2. Satellites receive and interpret signal
 - Aircraft position is identified through triangulation
 - Optional NAIM provides GPS position
3. Satellites transmit to earth bound terminal. Ground terminal receives data and identifies aircraft with approximate position or GPS-provided position
4. Rescue initiated with Rescue Coordination Centers (RCC)
 - Rescue resources sent to the scene



Key Advantages

RESCU 406® AFN Advantages

- Meets current/impending search and rescue standards
- Automatic Aircraft Identification Module (AIM) programming
- Navigation Aircraft Identification Module (NAIM) for GPS input
- Extended battery life (10 years)
- Enhanced reliability and maintainability via rugged design, battery replacement and self-test
- Capability to transmit aircraft latitude/longitude (AFN)

Global Facilities Network



Why Honeywell?

- 30 years of ELT experience
- More than 30,000 delivered ELTs
- Complete testing and verification facilities
- Global support network

Global Network of Support Services

Honeywell provides a global, comprehensive support network that delivers fully integrated service solutions to meet the needs of the aerospace industry. As a world leader of aviation aftermarket services, Honeywell provides the knowledge and resources to take care of all your service needs, whenever and wherever you require maintenance and repair services.

North America

- Anniston, Alabama
- Greer, South Carolina
- Montreal, Canada
- Phoenix, Arizona
- Prince Edward Island, Canada
- Rocky Mount, North Carolina
- South Bend, Indiana
- Tempe, Arizona
- Toronto, Canada
- Torrance, California
- Tulsa, Oklahoma
- Tucson, Arizona

Europe, Middle East, Africa, Asia and the South Pacific

- Bournemouth, United Kingdom
- Hlubocky-Marianske Udoli, Czech Republic
- Kuala Lumpur, Malaysia
- Luton, United Kingdom
- Melbourne, Australia
- Raunheim, Germany
- Singapore
- Vendôme, France
- Xiamen, People's Republic of China

Find out more

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