

RESCU 406® Emergency Locator Transmitters (ELTs)



**SMALLER AND LIGHTER WITH
LOWER MAINTENANCE COSTS**

**A full range of automatic fixed
and portable ELT solutions**

Honeywell

Setting the standard for flight safety systems.

For over 30 years, Honeywell has been a leading provider of Emergency Locator Transmitter (ELT) solutions to the aviation industry.

Designed for aircraft that operate over land and water, our next generation ELTs meet all global safety standards and crash survivability requirements to provide emergency transmission in the event of an aircraft impact. These ELTs initiate the search by transmitting distress signals at 121.5 and 406 MHz that have been developed to work with the COSPAS-SARSAT search and rescue system.

Honeywell ELT solutions lead the industry in design, reliability and performance, providing the lowest cost of ownership and best delivered value for aircraft operation:

- 12-year battery life
- Easy installation
- Reduced maintenance
- Automatic activation
- Smaller, lighter and more compact designs
- Reduced aircraft weight

RESCU 406® SE2

Transmitter Operation

The portable RESCU 406 SE2 is crew-deployable, activates instantly upon immersion in water, and features automatic or manual antenna deployment and transmission functionality.

Easy Installation

Using a mounting bracket with flexible release mechanism, the transmitter is quick to install and is a simple drop-in replacement for the RESCU SE ELT. Using the same operating principle, physical shape, antenna deployment and transmitter activation as all our previous generation systems, the RESCU 406 SE2 does not require any additional flight or cabin crew training.

Key Features

- 4 Position Switch: ON/OFF/ARMED/SELF-TEST
- LED Indicator: Transmit mode and Self-Test results
- Reprogrammable without opening unit
- Built-in Self-Test:
 - Validates output power levels
 - Validates battery availability
 - No satellite interference, transmits specially coded on 406 Message
- Activation Methods:
 - Automatic, fresh and salt water
 - Manual ON setting
- Battery Service Life: 12 years from the battery manufacturer
- MTBF: Greater than 100,000 hours
- Certified for use both on land and in water

RESCU 406® AP

Transmitter Operation

Available as either an automatic-portable or fixed model, the RESCU 406 AP automatically activates upon impact by an internal single- or six-axis G-switch with internal GPS.

Easy Installation

The automatic-portable transmitter unit is installed into a mounting bracket that is securely attached to aircraft structure. Metal straps and latches secure the unit during crash to ensure G-switch activation, while allowing the ELT to be easily removed by survivors for use outside the aircraft. Once removed from the aircraft, the unit's small whip antenna provides continued transmission, while the internal GPS receiver provides the emergency signal for the survivors' exact position.

The fixed-model transmitter attaches directly to aircraft structure in an orientation to automatically activate the internal G-switch in case of impact.

Key Features

- RF Power: 100 mW 121.5 MHz, 5 watts (406 MHz)
 - 406 MHz programming
- Short Message Formats:
 - 24-bit aircraft address number
 - Aircraft operator designator number and serial number
 - Aviation user
 - Serial number
 - Serialized aviation user protocol
- Long Message Formats (Nav):
 - Standard location protocol: 24-bit aircraft address, serial identification, aircraft operator and serial number
 - User location protocol: serial number, aircraft nationality and registration markings, 24-bit aircraft address, aircraft operator designator and serial number
- MTBF: Greater than 100,000 hours (estimated)
- Self-Test: Validate/Fault Isolate
- Certifications: TSO-C126A, DO-204A, DO-160F
- Optional remote control switch/remote control panels

Aircraft Identification Module

- Reprogrammable replacement transmitter (406 MHz) with aircraft-specific data



RESCU 406® SE2



RESCU 406® AP



RESCU 406® AFN2

RESCU 406® AFN2

Transmitter Operation

Available in either a single- or six-axis G-switch configuration, the RESCU 406 AFN2 automatically activates upon impact in the event of a crash. The transmitter's internal navigation input (ARINC 429) module connects with the aircraft navigation data bus to help reduce search time by transmitting the latitude/longitude information in the 406 MHz signal in the event of activation. Also available is a smaller/lighter Aircraft Identification Module (AIM) optional feature that helps simplify transmitter movement from one aircraft to another by automatically reprogramming the AFN2 unit.

Key Features

- RF Power: 100 mW 121.5 MHz, 5 watts (406 MHz)
- Short Message Formats:
 - 24-bit aircraft address number
 - Aircraft operator designator number and serial number
 - Serialized aviation user protocol
 - Serial number
 - Aviation user

- Long Message Formats (Nav):
 - Standard location protocol: 24-bit aircraft address, serial identification, aircraft operator and serial number
 - User location protocol: serial number, aircraft nationality and registration markings, 24-bit aircraft address, aircraft operator designator and serial number
- MTBF: 100,000 hours (estimated)
- Self-Test: Validate/Fault Isolate

Additional Features

- RESCU 406 AFN2 is 100% backward compatible with RESCU AFN
- Battery replacement without removing transmitter unit from aircraft
- Optional 24-bit aircraft address programming by DIP switch
- Programming for all protocols by Beacon Message Programmer (BMP) tool
- Comprehensive system self-test validates battery voltage, transmitter power, antenna connection, remote panel/switch and Aircraft Identification Module (AIM)

Optional AIM Features

- Automatic programming of transmitter unit
- No transmitter removal from aircraft required for reprogramming
- Powered from transmitter unit so no battery is required
- Available with both RESCU 406 AP and RESCU 406 AFN2

Optional Remote Panel and Features

- Three-position switch to activate/reset transmitter unit/initiate system self-test
- Indicator light shows transmitter unit activation and system self-test
- Four 22-AWG 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
- Recessed switch/guard avoids unwanted contact
- Backlit panel for enhanced readability
- Remote switch smaller and lighter (only 0.14 lb.)
- For use with both RESCU 406 AP and RESCU 406 AFN2

Optional Remote Audible Alarm Features

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

Antenna Features

- Single antenna cable to transmitter
- Low speed Rod type or high speed Fin type
- Approved by Boeing, Airbus, Dassault, Bombardier, FAA

RESCU 406® Emergency Locator Transmitters (ELTs)

Key Advantages

- Reduced size and weight
- 12 year battery life
- Frequency: 121.5 MHz & 406.040 MHz
- Meets current and impending search and rescue standards
- Automatic activation simplifies crew operation
- Enhanced response time with global satellite coverage
- Fixed and rotary wing operation
- Certified to the latest FAA/RTCA/ EUROCAE standards

Why Honeywell

- Over 30 years of ELT development experience
- More than 30,000 delivered ELTs
- Complete testing and verification facilities
- Worldwide repair, logistics and customer support network
- For more information or to order, please visit www.myaerospace.com

Product Specifications

Model	SE2	AP		AFN2
Type	Portable Survival Type	Automatic Portable (AP)	Automatic Fixed (AF)	Automatic Fixed
Part Number	1153426-2	51090132-1 (1 axis) 51090154-1 (6 axis)	51090170-1	51090130-1 (1 axis) 51090152-1 (6 axis)
Activation	Water activated/manual on	1 or 6 axis G-switch	1 axis G-switch	1 or 6 axis G-switch
Antenna	Integral – dual frequency	Fin: 111-902-9003 Rod: 111-902-9004 Whip: 51080130-1	111-902-9004 111-902-9003	Fin: 111-902-9002, 111-902-9003 Rod: 111-902-9004
Size	21" L x 2.8" D (53.3 x 7.1 cm)	5.87" W x 3.78" L x 3.03" H (14.9 x 9.6 x 7.7 cm)	5.87" W x 3.78" L x 3.03" H (14.9 x 9.6 x 7.7 cm)	6.1" W x 6.5" L x 3.5" H (15.5 x 16.5 x 8.9 cm)
Weight	3.97 lb. (1.8 kg)	2.2 lb. (1.0 kg)	2.2 lb. (1.0 kg)	3.52 lb. (1.6 kg)
Battery Operation	120 hours @ -20°C	120 hours @ -20°C	120 hours @ -20°C	120 hours @ -20°C
Battery Life	12 years	12 years	12 years	12 years
GPS	–	Internal GPS	–	GPS interface
Frequency (in MHz)	121.5 and 406.040	121.5 and 406.040	121.5 and 406.040	121.5 and 406.040
Programming	BMP	AIM3 or BMP	AIM3 or BMP	AIM2 or BMP
Operating Temperature	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C
Storage Temperature	-55°C to +85°C	-55°C to +85°C	-55°C to +85°C	-55°C to +85°C
TSO	TSO-C126A	TSO-C126A	TSO-C126A	TSO-C126A
Ancillary Products				
Remote Control Panel Switch	–	1152684-2 1153006-1 1153008-1 1153236-1 1153508-1 51090134-1	1152684-2 1153006-1 1153008-1 1153236-1 1153508-1 51090134-1	1152684-2 1153006-1 1153008-1 1153236-1 1153508-1 51090134-1
Aircraft Identification Module – AIM2	–	–	–	51090136-1
Aircraft Identification Module – AIM3	–	51090138-1	51090138-1	–
Audible Alarm	–	1152778-1/-2	1152778-1/-2	1152778-1/-2
Beacon Message Programmer (BMP) Ancillaries	Various	Various	Various	Various

Honeywell Aerospace

Honeywell

1944 East Sky Harbor Circle

Phoenix, AZ 85034

International: 1.602.365.3099

U.S. Toll Free: 1.800.601.3099

www.honeywell.com

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