HONEYWELL ELT EXPERIENCE
• Leading supplier of emergency locator transmitters (ELTs) for more than 25 years
• More than 30,000 ELTs delivered to airlines worldwide
• Qualified ELT supplier to Boeing and Airbus

RESCU 406® FAMILY OF PRODUCTS
• RESCU 406S survival type ELT, triple frequency transmitter (121.5/243/406 MHz), with 15-year service life water-activated battery
• RESCU 406AF automatic-fixed type ELT, with five-year service life lithium battery
• Worldwide customer support services
• Established AOG program and ATA stock
• Calibration, reprogramming and repair services
• Crew and maintenance training
• Customer test system and programming tool
• Manuals and bulletins
**PROGRAMMING TOOL FEATURES**

- User friendly instruction screens allow for fast and easy programming of RESCU 406S, RESCU 406AF transmitter unit and AIM
- Tool includes:
  - Custom software (CD)
  - Interface box
  - Interconnect cables
  - Operating instructions
  - Factory or customer programming to all approved protocols
- Tool records all previous programming messages
- Printer connection allows printout of all program message codes

**ELEMENTS OF THE RESCU 406® MHz SYSTEM**

- Meets existing and future standards for search and rescue
- Global coverage
- COSPAS/SARSAT satellite system
- Enhanced response time
- High RF output power (5 watts)
- Enhanced location accuracy
- Digital transmission
- Robust coding
- False alarms eliminated
- Unique coding for each ELT

**RESCU 406S PROVIDES LOWEST COST OF OWNERSHIP**

- Standard/offerable option equipment on all Airbus and Boeing platforms
- Battery service life typically greater than 20 years
- Return to Service Test using standard equipment or Automatic Test Set
- Programmable by customer using RESCU 406® Programming Tool
- Drop-in replacement for RESCU 99®, which has been an industry standard for 25 years with 23,000 delivered
Frequencies:
- 121.5, 243, and 406.025 MHz
Frequency tolerance 121.5/243 MHz:
- +0.005% over environmental conditions
Frequency tolerance 406.025 MHz:
- +0.005 MHz over 5 years incl. offset
RF output power 121.5/243 MHz:
- 250mW typical
RF output power 406.025 MHz:
- 5 Watts +2dB
Modulation 121.5/243 MHz:
- 100% AM tone, swept downward 1500 to 500 Hz @ 3 sweeps/second
Modulation 406.025 MHz:
- Phase modulated, 1.1 ± 0.1 radians peak, data transmitted according to short message

Specifications:
- **RESCU 406S/mounting system (pull handle stowed)**: 26.8 in (68.1 cm); (pull handle deployed): 29 in (73.7 cm)
- **Width**: RESCU 406S/mounting system 3.35 in (8.5 cm)
- **Height**: RESCU 406S/mounting system 4.22 in (10.7 cm)
- **Weight**: RESCU 406S 4.48 lb (2.03kg); mounting system 2.97 lb (1.35kg)
- **Operating life**: 50 hours
- **Battery type**: Water-activated
- **Battery service life**: Typically greater than 20 years
- **Message protocol selections**: Serial Number Protocol; Aviation User Protocol; 24-Bit Aircraft Address Protocol; Aircraft Operator Designator and Serial Number Protocol; Serialized Aviation User Protocol

Certified by:
- Transport Canada
- FAA
- CAA (UK)
- LBA (Germany)
- COSPAS-SARSAT
- Meets latest international standards

**TECHNICAL SPECIFICATIONS**

- **Frequencies**: 121.5, 243, and 406.025 MHz
- **Frequency tolerance 121.5/243 MHz**: +0.005% over 5 years incl. offset
- **RF output power 121.5/243 MHz**: 250mW typical
- **Modulation 121.5/243 MHz**: 100% AM tone, swept downward 1500 to 500 Hz @ 3 sweeps/second

- **Frequencies**: 406.025 MHz
- **Frequency tolerance 406.025 MHz**: +0.005 MHz over 5 years incl. offset
- **RF output power 406.025 MHz**: 5 Watts +2dB
- **Modulation 406.025 MHz**: Phase modulated, 1.1 ± 0.1 radians peak, data transmitted according to short message

- **Length**: RESCU 406S/mounting system (pull handle stowed): 26.8 in (68.1 cm); (pull handle deployed): 29 in (73.7 cm)
- **Width**: RESCU 406S/mounting system 3.35 in (8.5 cm)
- **Height**: RESCU 406S/mounting system 4.22 in (10.7 cm)
- **Weight**: RESCU 406S 4.48 lb (2.03kg); mounting system 2.97 lb (1.35kg)
- **Operating life**: 50 hours
- **Battery type**: Water-activated
- **Battery service life**: Typically greater than 20 years
- **Message protocol selections**: Serial Number Protocol; Aviation User Protocol; 24-Bit Aircraft Address Protocol; Aircraft Operator Designator and Serial Number Protocol; Serialized Aviation User Protocol

Certified by:
- Transport Canada (TC)
- FAA
- CAA (UK)
- LBA (Germany)
- COSPAS-SARSAT
- UK Civil Aviation Authority (CAA)
- German Luftfahrt Bundesamt (LBA)
- Austrian AUSTRO Control GmbH

Specifications:
- TSO/CS-11a, TSO-0126 (FAA); RSP 100, RSP-187 (TC); Rule Part 87 (FCC); RTCA/DO-18B, RTCA/DO-204 (FAA, TC, FCC); C/S T.001 (COSPAS-SARSAT); EURICAED-82
RESCU 406AF ADVANTAGES/BENEFITS

1. Standard/offered option with Airbus and Boeing
2. State-of-the-art, triple frequency radiation
3. Retrofittable - Service Bulletin or Supplemental Type Certificates
4. Lowest cost of ownership:
   - Maintenance check - Without removal of ELT system LRUs from Aircraft
   - Single battery pack - Powers entire system
   - Superior battery life - Line replacement after five years
   - System self-test - Validates ELT system LRUs in place, initiated/monitored from remote panel or transmitter unit
   - Rugged, robust design:
     - Able to withstand harsh environmental conditions
     - Maximizes service life
   - Lightweight shielded aluminum chassis:
     - Simplifies maintenance
   - Optional enhancements:
     - Remote panel, monitoring and control from flight deck
     - Aircraft identification module (AIM), automatic programming of transmitter unit
     - Remote audible alarm

RESCU 406AF Programming options:

- Automatic programming - By aircraft identification module (AIM) or 24-Bit switchover module
- Factory programming - No requirement for customer reprogramming
- Customer PC programming tool - Windows-based

TECHNICAL SPECIFICATIONS

TRANSMITTER UNIT

- Frequencies: 121.5/243/406 MHz
- Frequency tolerance: ±0.005% (121.5/243 MHz), ±0.002% (406 MHz)
- RF output power: 150 mW typical (121.5/243 MHz), 5 Watts ±2 dB (406 MHz)
- Length: 1.14 in (290 mm) Weight: 5.54 lb (160 g) (includes battery)
- Battery type: Lithium Battery Life: Operating life: 50 hours
- Battery service life: Five years, including effects of periodic monthly test
- Operational altitude range: 0-50,000 ft (15,300 m)
- 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 alert: Visual (LED)
- System self-test: Line current duration - Validates battery voltage and output power, 406 MHz transmission encoded with test protocol
- Message protocols: RTCA/DO 183, RTCA/DO 204 (FAA, TC, FCC); C/S T.001 (COSPAS-SARSAT)
- Certification authorities:
  - Transport Canada (TC)
  - USA Federal Aviation Administration (FAA)
  - EUROCAE (ERS-16)
  - RTCA/DO 204
  - EUROCAE (ERS-16)
  - RTCA/DO 204
  - EUROCAE (ERS-16)

AIRCRAFT IDENTIFICATION MODULE (AIM)

- Length: 1.11 in (28 mm) Weight: 6.6 lb (30 kg)
- Height: 3.43 in (87 mm) Length: 13.27 in (337 mm)
- Width: 3.43 in (87 mm) Depth (into rack): 3.622 in (92 mm)
- Power supply: Provided from the transmitter unit internal battery

REMOTE PANEL

- Built-in test: Provided by transmitter unit self-test
- Control: Three-position switch - ON, ARMED, TEST/RESET
- Status monitor (LED): ON steady - For transmit with 28 Vdc powering the remote panel
- Optional power source: 5 VAC / 400 Hz / 1 Watt (backlight); 28 Vdc (switch closure)

ANTENNA

- Standard antenna type: Blade
- Antenna speed ratings: 0.9 Mach max.
- Frequency range: 121.5/243/406 MHz
- Polarization: Horizontal (H), Vertical (V)
- Weight: 1.2 lb (0.54 kg)
- Temperature range: -50 °C to +70 °C
- Attitude: ±0.001° Max.

REMOTE AUDIBLE ALARM UNIT

- Audio output: > 85 dB @ 2 m (125.5 mm) Weight: 2.06 lb (93.1 kg)
- Depth: 2.20 in (56.0 mm) Weight: 2.0 oz (56.8 g)