

## Avionics Division

AIR PRECISION is specialized in avionic development for civil and military programs. Its main customers are the aircraft manufacturers as AIRBUS, BOMBARDIER, EMBRAER, DASSAULT, EUROCOPTER, as well as the French Airforce ...

For various aircraft and helicopter programs, we propose equipments for which we are leader as :

- electronic clocks
- emergency locator transmitters
- external aircraft lights (navigation lights, landing lights, search lights, anticollision lights, etc ...)
- and various electronic and electromechanic equipment (turn and slip indicator, backup battery, converter ...)

### Electronic clocks

AIR PRECISION is leader in electronic clock design for civil and military aircrafts. Our clocks are designed in accordance with severe technical specifications, the various functions available allow us to cover all markets.

For most of our products, the various functions are driven by a microprocessor which carries out the computation for display, coded output or synchronization.



The main functions to be found on our clocks :

- GMT time display (Greenwich Mean Time)
- Local time display
- Date display
- Chronometer display on a separated display
- Elapsed time display
- Flight number display
- Coded time output on ARINC 429 bus Coded
- Date output on ARINC 429 bus Coded
- identification number output on ARINC 429 bus
- Clock synchronization on GPS data on ARINC 429 bus

### Emergency locator transmitters

Air Precision manufactures airborne emergency locator transmitters (ELT) compatible with the COSPAS-SARSAT system. This system consists of a series of satellites which detect distress beacons and relay the radio signals to ground based control centers (CCM) world-wide. These centers are responsible for locating the beacon and initiating search operations when a beacon transmits. Using 406Mhz beacons permits a faster and more precise location than bi-frequency 121.5 and 243Mhz beacons.



Our beacons emit the registration of the aircraft in which they are installed, for 48 hours (at -20°C, and longer at ambient temperatures). They can be set manually, or from the cockpit, or automatically, by the crash sensor included in the beacons (g-switch). The 406Mhz beacons have an autotest function. The beacons are usually installed in the upper rear fuselage. They are also portable.



You can visit the COSPAS-SARSAT website if you are interested by this system of search and rescue.

Air Precision is developing a new model of tri-frequency ELT (ELT96-1).

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### Lights

AIR PRECISION is leader in the design of external aircraft lighting devices for civil and military programs.

These equipments are traditionally based on incandescent bulbs filtered by coloured glass. Latest developments use discharge lamp systems and coloured LEDS have been applied to improve performance.

Advanced systems use CPLD for light position control and various functions (as for white and infrared landing light).



### Quality



Since 1946, AIR PRECISION works in conformity with our customer requirements from aerospace and defence sector (AIRBUS, EUROCOPTER, BOMBARDIER, EM-BRAER ...).

More than ever, the quality is our main target. The quality assurance department is involved at each stage of the life cycle of our equipments, from the development (software and hardware) to the manufacturing. It permanently assume the Quality improvement by an organisation baking up on ISO 9001 procedures as well as customer requirements and standards (DO 178, DO 254, ABD100, ABD-200, MIL STD , EUROCAE ...).

The Quality department disposes for that of highly qualified people and large up to date technical means. For its aeronautic manufacturing division, AIR PRECISION received from the EASA (European Aviation Safety Agency) the **Part 21 G** agreement.