

The most commonly used major component in the parachuting world. More than 50,000 units are in actual use and save the lives of more than 50 skydivers each year.

CYPRES

CYbernetic Parachute RElease System



THE LIFE SAVING DEVICE



The "Expert" model.

Ideal for the experienced skydiver. Activation at approximately 750 feet AGL when vertical speed is more than 78 miles per hour (typical freefall speed in a box position is 111 miles per hour).



The "Student" model.

During freefall, the loop is cut at approximately 750 feet AGL. If the student has a partially opened main and the vertical speed is above 29 miles per hour, the unit will activate at approximately 1000 feet. This allows more time to handle a two canopy out situation.



The "Tandem" model.

Activates at approximately 1900 feet AGL, when vertical speed is more than 78 miles per hour. This allows more time for the slower opening of a tandem reserve canopy.

In addition to these standard models, Airtec also produces custom versions for special needs and applications.



Battery Pack

Good for two years

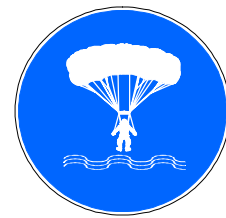
The CYPRES is powered by a battery power pack assembly that can be used for a maximum of two years, 500 jumps, or until the self-test indicates (via code 8998 or code 8999) that the battery needs to be replaced - whichever occurs first. In most cases, this is two years. The two year period starts when the battery pack is plugged into CYPRES. *Spare battery packs may be stored in proper conditions for up to three years prior to installation.*



Cutter

Field replaceable

The CYPRES has a unique method of opening the reserve container. It uses a device that cuts the reserve container closing loop. This device is completely independent from the normal reserve container opening system. A jumper uses the reserve ripcord handle to pull the reserve pin out of the eye of the closing loop; the CYPRES uses a cutter which cuts the closing loop itself. This redundant design has saved the lives of skydivers with damaged reserve pins. The concept of severing the closing loop to open a reserve container is patented by Airtec. After an activation, a replacement cutter can easily be plugged in.



Water Resistant CYPRES

Good for 15 foot depths

Airtec has developed a water-resistant system kit that protects CYPRES for 15 minutes to a depth of up to 5 meters / 15 feet. First time installation of the kit must be performed at Airtec (Germany) or at SSK (Ohio, USA). Thereafter, a technically skilled rigger can perform necessary procedures for subsequent use in his loft. The handling of the water-resistant CYPRES is extensive, and requires additional maintenance. **Therefore, use this option only if it is really needed.**

Handling - *Set it and forget it!*

The use of a CYPRES does not restrict skydiving in any way. The handling of CYPRES is extremely simple. It requires only one switch-on procedure prior to the first jump of the day. Only if you have left the dropzone, should you repeat this procedure before the next jump. That's it! No switch-off is necessary at the end of the day.

Changes in air pressure caused by the weather are taken care of automatically. If you want to jump into a DZ of another elevation, you can easily program this into the CYPRES unit. Simply hold the button during the switch-on procedure until you see the required altitude difference on the display.

You do not see, hear or feel this equipment, and it will not affect you unless you are extremely close to the ground and still in freefall. Only then it comes into play, cutting your reserve container closing loop, allowing your reserve to deploy. That is its only task. This little job, though, has saved hundreds of skydiver's lives - skydivers of all experience levels.

Installation - *All new rigs are CYPRES ready!*

Since 1994 all major parachute rig manufacturers around the world have incorporated the spandex pouch which accommodates the CYPRES unit, the plastic pocket for the control unit, and the channels for the unit cables as a standard. These integrated installations are a co-design between the rig manufacturers and Airtec, and are tested and approved by both.

Maintenance - *Scheduled and periodic!*

To ensure that this high-tech, high-precision measuring instrument is always up to date and functioning properly, Airtec has established a periodic technical check, which can be carried out at Airtec in Germany or SSK in Ohio. The maintenance must be carried out four years and eight years after the original date of manufacture, and can be done up to three months before or after this date. During the maintenance, the unit is visually checked, taken apart, the calibration is checked, the technical data is compared with that from the production process, and all different power consumptions are checked. It is subjected to simulated conditions which cause it to activate, thus testing the activation programming data (electronic cycle, precise duration and magnitude of activation impulse). Furthermore, it undergoes extreme heat and cold tests. Any deviations are corrected, and any necessary repairs are carried out. The cutter system is examined in the same way. Any applicable technical improvements that Airtec has made are performed on the entire system. Additional maintenance periods will be announced when determined.

Generally, the whole procedure takes approximately 16 days at Airtec (Germany) or SSK (Ohio, USA). If the technicians are not completely content with the unit's test data, the resulting adjustments, repairs, and re-testing may take a longer period of time. At present, this applies to approximately 6% of all maintenance procedures. This extra servicing does not increase the price of the maintenance - the price remains fixed. Note that the self-test is valid only when the maintenance requirements are followed.

Lifetime - *Good for more than ten years!*

The lifetime of CYPRES has not as yet been finalized. The first units were sold in January, 1991. Based on all available experiences and test data, the lifetime will exceed the previously announced ten years. More information will be announced as it becomes available.

Reliability - *Good for skydiving and space!*

Volumes could be written about Airtec's comprehensive and unparalleled quality control system, and how that during the entire first nine years of CYPRES, not a single unit properly installed and maintained refused to perform when presented with the conditions to do so. Field experience and use speaks for itself. At lower altitudes, 50,000 skydivers rely on the standard CYPRES cutter system to save their lives when it is time to do so. In the higher altitudes the European Space Agency relies on the standard CYPRES cutter system to rescue their satellites and to open their sun paddles, when it is time to do so.

Remember - CYPRES is strictly a backup device and is not intended to replace proper training or timely execution of appropriate emergency procedures.