

Leaders in reliability  
for 14 years  
Leaders in technology  
for 14 years

# Airtec GmbH Safety Systems



We combine  
hand craft and high tech  
with  
skydiving and science.

**CYPRES 2**

Some facts on

# CYPRES AAD technology

needs nearly no attention	1986
extremely simple to handle	1986
invisible from outside the rig	1987
doesn't restrict normal skydiving behaviour	1988
capable of cutting the reserve loop (skydiver has his ripcord, the CYPRES its cutting device)	1988
self-test automatically at every switch on	1988
no need to switch off after use	1988
can deal with air burbles and turbulences around a skydiver in freefall	1989
automatically compensates air pressure changes due to weather	1989
activates at the lowest possible altitude	1990
development of three types of AADs: the Expert, the Student and the Tandem	1990
fixed maintenance price (independent of the necessary amount of work)	1991
reserve loop / washer system which can save skydiver lives	1992

*the most advanced AAD  
technology on the planet*

maintenance cycle extended to 4 years (all other AADs had a maximum of 1 year)	1993
factory set up in virtually every new rig worldwide	1994
release element replaceable via fool proof plug-and-socket connection	1995
CYPRES cutter system used in satellites	1996
the Speed Breaker project to reduce risk with speed skydiving	2002
owner never has to change a battery	2003
waterproof for 15 minutes down to 15 feet	2003
actively reminds of upcoming maintenance	2003
12 ½ years of CYPRES 1 without price increase	1991 - 2003
to investigate virtually every new rig worldwide for the opening performance of their reserve containers is Airtec's permanent task	1988 - 2005
to build and accompany the CYPRES for 14 years in a way that meanwhile 90.000 units work with unique reliability and have saved more than 1.000 skydivers from certain death is Airtec's pride	2005

**CYPRES** is the abbreviation of **CY**bernetic **P**arachute **R**elease **S**ystem

Fourteen years have passed since the introduction of the **CY**bernetic Parachute **RE**lease System in 1991. Now, with over 90,000 units in use and over 1,000 lives saved, we are confident in saying that the reliability and the track record of CYPRES is second to none and will remain that way.

This is a direct result of our unique production and maintenance techniques, as well as our overall philosophy, which provide users with uncompromised performance, and the best parachute Automatic Activation Device possible.

CYPRES was invented, and Airtec was founded at a time when AADs were considered to be unreliable and for students only. An experienced jumper who wanted to use an AAD had to hide it from others. Our plan was to produce the best device possible, and to convince experienced skydivers who would not even jump with someone using an AAD, that personally using one is a good idea. The reason that we have achieved these goals with CYPRES, is because of our philosophy.

Certainly, there are ways we could cut corners, reduce production costs, wait until there is a problem to perform any maintenance, or even wait until something has really gone wrong to say it is time to stop using a particular unit. Although these shortcuts could save money, and might sound good, there is a high price to pay when it comes to reliability, performance, and safety.

Construction and user-friendly design is important, but the real challenge is reliability during practical use.

We try to achieve this with a concept that includes an exceptional method of production, and by accompanying the devices throughout their lifetime.

A common method to produce an electrical device is to simply manufacture, test, and sell it.

Our concept is different:

Our production consists of an intermittent process: manufacturing - checking - manufacturing - checking - manufacturing - etc...

This process alone takes a minimum of 16 days.

When the unit comes off the production line we look after the whole system (processing unit, release unit and control unit) for the rest of its life.

This involves:

- Adjusting it to changed environmental conditions.
- Adjusting it to changed habits in the sport.
- Maintaining it and performing preventative replacements of modules in case we predict future wear.
- Updating all applicable hardware and software regularly.
- Taking care of the power supply.

The total cost for all this during the units whole lifetime is only 2 x \$ 160 US. The first time 4 years after the date of manufacture and the second time 8 years after the date of manufacture.

Experience during the last 14 years show that our concept leads to an extremely high standard of reliability.

More than a thousand skydivers saved from certain death will state that.

## CYPRES 2

With the CYPRES 2 we seem to be very close to the perfect AAD.

With its properties

- it doesn't restrict normal skydiving behaviour in consideration of the model specific activation criteria
  - the owner never has to change a battery (Realize: It is a highest precision pressure measuring device capable of initiating a reserve container opening within a split second – and the owner never has to replace a battery - regardless of the number of skydives.)
  - being waterproof for 15 minutes down to 15 feet
  - reminding its owner actively when the maintenance comes into sight and 15 other perfect features
- it makes life as easy as life can be when using an AAD.

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