

# TIME CYPRES 2 User's Guide

This English user's guide is the original user's guide. It will not be further processed. The latest revision is applicable for Time CYPRES 2 models only and replaces and supercedes all previous applicable revisions\*. Subject to change without notice. Time CYPRES 2 User Guide as revised 07 / 2023 Art. No. 991018.

\*If your CYPRES does not have the latest upgrades / updates installed it is possible that your unit does not have all options available, which are stated in the newest English user's guide.





Congratulations on your choice of CYPRES, the surely safest and most accurate Automatic Activation Device currently available.

Airtec GmbH & Co. KG Safety Systems

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## 1. Function

#### 1.1 How the Time CYPRES 2 works

The "Time" CYPRES 2 activates time related. Once the arming cable is pulled, the unit starts counting seconds and activates the cutter after the previously programmed delay time. The activation is solely time related and is completely independent of any vertical descent rates.

Any delay time between 0 and 999 seconds can be programmed.

The release unit (cutter) system for the parachute container is completely independent of the rig's primary system, because it does not pull the ripcord pin out of the closing loop, but rather cuts the loop inside the parachute container to release the pilot chute.

Opening a parachute container by severing the closing loop is a method invented and patented by the founder of Airtec, Helmut Cloth, in 1987.

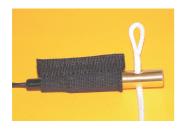
The CYPRES' parachute activation system has these advantages:

- The reserve container opening sequence can be initiated in two different ways. One method is by the jumper manually pulling the reserve release handle. The other method is by CYPRES when it automatically cuts the closing loop.
- Mechanical components are reduced to a single movable piston in the release unit.
- The activation system is located inside the reserve container where it is not exposed to excessive shock or other adverse influences.

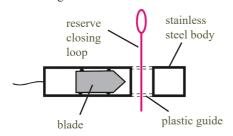
## **AWARNING**

CYPRES is not able to open your reserve. It is only intended to sever your reserve closing loop. CYPRES is strictly a backup device and does not replace proper training or timely execution of emergency procedures. It may display a wrong status, fail whenever and for whatever reason and may cause injury or death. If you are not comfortable with these risks you must not use CYPRES. You must make sure that the loop passes through the cutter's passing hole. If you loan, rent or sell your CYPRES to somebody it is your responsibility to inform him about the above circumstances.

#### Release unit (cutter) with elastic keeper



#### Functional diagram:



The distance which the piston moves in case of an activation is approx. 5 mm.

The release unit (cutter) is a unique design specifically developed for CYPRES. Features include a completely self-contained enclosure to avoid expelling anything during activation.

During an 18 month long investigation by BAM (Bundesanstalt für Materialprüfung), Berlin, 99 release units were tested. The result is that BAM and the U.S. DOT have classified the CYPRES as being non-hazardous.

Due to its high reliability and other properties, the CYPRES release unit is currently being used in aerospace applications (satellites).

## 1.2 Components

The Time CYPRES 2 consists of a control unit, a processing unit with the attached release handle cable housing and one release unit (cutter) for a 1-pin parachute container or two release units (cutters) for a 2-pin parachute container.



control unit



processing unit

## **AWARNING**

Do not pull, lift, carry or throw CYPRES by the cables



release unit (cutter)

## 1.3 Power supply

You do not need to worry about CYPRES 2's power supply in any way.

The unit should function from the date of manufacture (DOM) until the end of its service life.

If CYPRES 2 ceases to function or displays an error code during the self-test please contact Airtec or SSK.

No CYPRES 2 user has ever had to pay for a battery since 2003, provided that the maintenance intervals have been adhered to.

#### 2. How to handle the Time CYPRES 2

#### **SAFETY INSTRUCTIONS**

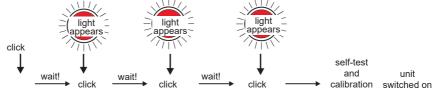
Always check the operativeness of the Time CYPRES 2 prior to the first action of the day: Perform a selftest. Do it on the ground before boarding.

#### 2.1 Switching on

CYPRES is switched on by pressing the push button four times with very short clicks. Start the switch-on cycle by clicking the button once. After approx. one second, the red LED-light will glow. You must acknowledge the red light immediately by clicking the button again. This sequence - a click following appearance of the red light - will be repeated two more times. After a total of four clicks, CYPRES goes into self-test mode.

If you do not act promptly after seeing the LEDlight, or if you push the button to soon, CYPRES will ignore the switch-on attempt.

This four-click initiation cycle has been designed to avoid accidental switch-on.



the display starts to countdown, the unit activates when zero is reached.

After 14 hours without activation have passed, the unit will switch itself off automatically.

If a switch on procedure is done and the arming cable is not inserted, the unit will countdown from 10 to 1 and after 1 is shown the display will go blank, the unit is switched off.

A manual switch-off is always possible using the push button.

The manual switch-off sequence is the same as the switch-on procedure (click, light, click, light, click, light, click). This routine is designed to avoid accidental switch-off.

If the self-test is not successful, an error code is shown for approximately 2 seconds. See chapter 7.

After an activation the unit switches itself off automatically.

## 2.2 Delay time programming

To change the preset delay time, turn on the unit, but press and hold the button at the fourth (last) click. The device will perform a self-test. You will see that the device counts from □ downwards. After [], the currently programmed delay time (for example  $5E \cup 5$ ) will be displayed for one second. If you want to keep this value, release the button the moment you see the previously programmed delay time. If you want to set another time, keep the button pressed and enter a three-digit number (between 000 and 999), starting from the left digit. The display will show **SEO** with an up-counting first digit. When you see the correct number for the first digit, release the key. This will save the first number. Press and hold the button again to set the second digit until the correct second digit is displayed 5E 0 and release the button. Program the third digit in the same way.

#### Example:

15 seconds delay requires to enter **5E 0.15**. The first number to program is the 0, followed by the 1, followed by the 5. When the programming is successfully completed, the unit will not display the first zero(s) to keep it clear.

You will see 5E 15 (SEconds 15).

After you have finished the setting, the unit will switch itself off.

If you start the delay time programming but do not complete it (e.g. do not enter the complete 3 digits), the device will switch off automatically after 14 hours. After the following power-up, the unit will display a delay time programming of 55  $\Xi$ 

If the programming is  $5E\ 0$ , the unit will activate immediately when the arming cable is pulled.

## 2.3 Handling

To use the preset device just switch it on. It will run through the selftest, it will pass the and will then display the previously programmed delay time (in this example 5£ 0!5).

The unit is now reday for operation. As soon as you pull the arming cable, the device counts down from the displayed 5E = 15 to 5E = 0 and activates when 5E = 0 is reached.

If you want to stop the countdown for any reason, fully insert the arming cable. One second after you have pushed back the arming cable, the countdown stops and the device resets itself to the programmed value (in this example the SE 15 appears again on the display).

The unit is ready for operation again. Another way to stop the countdown is to switch off the device via the pushbutton.

## **AWARNING**

If the countdown has to be stopped, this has to be done at least 1 second before reaching the zero.

## 3. Access to unit information

To view the unit informations press the button immediately when the "appears at the end of the switch-on procedure and hold it.

Each value is displayed for 5 seconds, then the next value shows up.

You can stop the information sequence whenever you want by just releasing the button.

When you let the button go, the previously programmed delay time is shown again, the unit is on for the next 14 hours.

\* After the last scheduled maintenance has been performed, the words 'maint. no' and the date of the end of service life is shown.

1. display of the activation counter



2. display of the serial number



3. next possible maintenance in 09 / 2024



# 4. Changing the release unit(s)

After an activation the release unit can be changed by any rigger (packer) via the plug-and-socket connection.

#### Disconnecting the release unit:

Hold plug and socket by their aluminium grips and pull them apart using a smooth straight motion. Do not twist!



1-pin Cutter



#### Connecting the release unit(s):

Hold plug and socket by their aluminium grips. Place the plug directly in front of the socket and connect them by pushing together with a smooth straight motion until it is completely seated.

#### Do not tilt!



It is easy to change a 1-pin CYPRES to a 2-pin CYPRES or vice-versa, by swapping cutter types.

#### 2-pin Cutter



#### Notes:

1. CYPRES 1 field replaceable cutters (no aluminum grip) can be used with CYPRES 2. They will function properly, however this combination is not water-resistant.

CYPRES 2 cutters (identified by aluminum grip) can be used with any CYPRES 1 with the field replaceable cutter connector. They function properly - but this combination is not water-resistant.

- Release units (cutters) are numbered via a heat shrink tubing placed on the cable. This number identifies the cutter. A list of cutter numbers with corresponding dates of manufacture is available on www.cypres.aero
- 3. Use a one-pin cutter in a one-pin container and a two-pin cutter in a two-pin container.

#### 5. Water contact

Because of its arming cable, the Time CYPRES 2 is not waterproof.

If a Time CYPRES 2 had a water contact, please send it in for a free inspection.

## 6. Important notes for users

- CYPRES 2 is shielded against radio-transmitter signals. Extreme concerted efforts have been taken to protect the Time CYPRES 2 from "radio pollution". Although the extraordinary shielding system of the Time CYPRES 2 has been investigated thoroughly, it is impossible to have 100% protection. It is still recommended to avoid strong radio-transmitters. Please contact Airtec if you have questions.
- A release unit that has activated builds up a high internal pressure and will remain pressurized.
   Never attempt to open it by force. It can, however, be stored safely for an indefinite period of time, provided that it has not been damaged.

## **AWARNING**

Malfunction: A malfunction can easily injure or kill you or others. Every technical device can fail. So everything imaginable can happen with the CYPRES, including, but not limited to: displaying a status which is not true, failing to function, or functioning at a wrong moment or at a wrong occasion. If you or your friends or family are not willing to accept these uncertainties and risks, then you must not use CYPRES.

## 7. Error Display

If any irregularities are detected during selftest, the Time CYPRES 2 shows a number on the display for approx. 2 seconds, then it switches itself off (display goes blank).

Error code number / error code description:



One or both of the attached release units are not correctly electrically connected to the unit. The reason may be a cable break, the cutter plug could be disconnected, or the release unit(s) may have activated.

If other error codes appear in the display, if the unit switches itself off and can not be switched on again, if the unit does not switch off after 14 hours, if there is no red light when the button is pressed, or if anything else unusual occurs please record the error code and contact Airtec or SSK before further use!

## 8. Installation

All rigs that are given free for the installation of an Time CYPRES 2 have been at Airtec in Bad Wünnenberg, Germany for a thoroughly investigation. In this procedure extensive testing of the function by an installed Time CYPRES 2 has been executed and the installation instructions have been defined in conjunction with the harness and container manufacturer.

Under no conditions deviation from these instructions are allowed.

When the unit is inserted into its housing in the rig the control unit cable and cutter cable must be placed without tension. Excess cable is stowed in the flat part of the pocket underneath the velcro-adjustable flap. If you have to stow both, the thinner cutter cable and the thicker control unit cable, be sure to place the thicker cable so that it lays on top of the thinner one. Cables should be placed in a circle in order to avoid twists. Always avoid pulling, bending, twisting or kinking the cables.

When preparing a container for a dummy drop, please make sure that the mounting of the cutter ensures that the cutting action results in a container opening.





# 9. Technical service

CYPRES 2's extremely reliable functioning is attributable to four factors: the exclusive use of carefully pretreated and approved parts, strict and detailed manufacturing procedures, continuous quality control and monitoring throughout the manufacturing process, and regular periodic technical servicing (maintenance). We offer maintenance for four main reasons:

- Deviations between nominal and actual values are corrected to ideal values. Every detail is observed. Signs of wear and tear are often corrected and sometimes even 'cosmetic' treatment is performed.
- 2. The technical condition of each unit is analyzed. The fact that a very high percentage of units are returned for periodic maintenance allows us to see statistical trends and predict potential problems at a very early stage. This means that it is often possible to prevent situations by making modifications during the maintenance process, rather than having to fix problems that result in downtime later.
- 3. Experience has shown that during the period of a maintenance cycle (4 or 5 years), changes

- and improvements do happen. Applicable updates are performed during maintenance. Such updates may arise from technical improvements or enhanced knowledge or may result from environmental changes or changes in the sport (e.g., new disciplines), which Airtec is always researching and taking into consideration.
- 4. The most important maintenance element is the individual pre-adjustment of each unit for the next cycle. A unit will not be returned until a high level of confidence is reached in terms of predicting the unit's correct function for the next cycle.

CYPRES 2 offers two scheduled maintenance events within the unit's service life.

## **AWARNING**

Reliability: As NOTHING lasts forever, the longer you use a device without a thorough check, the greater the chance that it does not work properly every time you need it. If you choose to not have maintenance performed on your device you're taking the risk that the reliability level will decrease.

Return your CYPRES 2 for maintenance (see chapter 12.1 for utilization cycle).

For maintenance cycle schedule see chapter 12.1

The earliest possible date for the CYPRES 2 maintenance is 6 months early, the latest 6 months after the month of manufacture.

It's smart to choose a suitable time during the 13 month window for sending the unit in for maintenance, rather than waiting until the last possible moment, or until the beginning of the next season. Because of the 252,000+ maintenance procedures performed to date on CYPRES, and lots of improvements incorporated into the design of CYPRES 2, Airtec has determined that it is possible to extend the maintenance window to 13 months on CYPRES 2. This maintenance window gives you more freedom, and avoids maintenance down-time at the wrong time of the year - please use this feature wisely!

At any time it's possible to check the date of the next recommended maintenance. (See chapter 4.5)

If the unit enters 6 months before the recommended maintenance due date, the maintenance date (next maint. in month / year) will automatically be shown at each self-test. 6 months after the due date the display will change to: 'next maint. now'.

All displayed dates are only a reminder.

Please choose a suitable date during the 13 month time frame for a convenient performance of the maintenance. According to experience, the number



of maintenances and the necessary time to do them increases February-May. For quicker service, a date between June and January is a better choice.

During the CYPRES 2 service life, the skydiver

should not have any operation costs other than the 2 recommended maintenance fees (except for an activated cutter or filter).

Please contact your local CYPRES Dealer or Service Center concerning the maintenance. The list of Airtec Dealers is available at www.cypres.cc

The CYPRES Service Center for the USA, Canada, South America and other Western Hemisphere countries is:

> SSK Industries, Inc., 1008 Monroe Road Lebanon, OH 45036 - USA Tel: ++ 1 513 934 3201 Fax: ++ 1 513 934 3208 email: info@SSKinc.com

www.SSKinc.com

## **AWARNING**

Reliability: As NOTHING lasts forever, the longer you use a device without a thorough check, the greater the chance that it does not work properly every time you need it. If you choose to not have maintenance performed on your device you're taking the risk that the reliability level will decrease.

Return your CYPRES 2 for maintenance (see chapter 12.1 for utilization cycle).



## 10. Repacking of the parachute

You should definitely take advantage of the CYPRES closing loop and disc system.

Previous closing loops - made by old suspension lines or Kevlar or Darcron or Spectra or Optima - were thick and not very slippery and not very flexible.

On container openings, when circumstances are unfortunate, these loops can be squeezed between the grommets.

That may cause a delay of the opening or even avoid the opening at all for some seconds.

Fatalities did happen because of that.

Airtec has improved the closing loop system.

This is the result:





- no sharp edges
- minimal loop tearing
- extremely flexible
- extremely slippery
- breaking strength: 408 lbs
- diameter: 11/16 inch

The CYPRES closing loop is far safer than previous loops because:

- the extra thin, flexible and slippery loop material reduces the possibility of the loop jamming in the grommets dramatically
- loop tearing is extremely reduced, because the fastening disc has no sharp edges
- the tensile strength is far greater (in excess of 408 lbs) than with former loops
- the extremely thin material which is impregnated with silicone reduces the pull force which is required to pull the ripcord up to 50% (although the tension on the container remains the same)

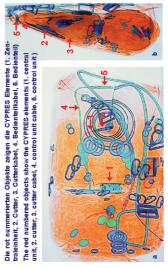
# 11. Regarding Air Travel

A CYPRES equipped rig may be transported in freight and passenger airplanes without restrictions. All its components (e.g. measuring technique, electronics, power supply, loop cutter, control unit, plugs, cables, casing) as well as the complete system, contain parts and materials that are approved by U.S. DOT and other agencies worldwide, and are not subject to any transport regulations.

Because of the size of a rig we recommend to check it in as normal luggage and to not take it on board as hand luggage. In case of questions or objections of the security personnel, please use the card shown on the right which you'll find in the back cover of this book. The card shows an X-ray of a complete rig with CYPRES 2. Depending on type and design of the rig the X-ray on the security's screen may vary.

The Parachute Industry Association and the USPA have worked with the Transportation Security Agency concerning traveling with parachutes.

Refer to USPA's web site (www.USPA.org) for the latest recommendations and documents.



original card located in the back cover

If you've lost the card, you can get a new one from Airtec or SSK.

## 12. Technical Data

for the	Time	<b>CYPRES</b>	2 excluding	the ri	pcord	housing	for the	activation	handle:

Length, width, height of the processing unit:	approx. 85 x 43 x 32 mm
Length, width, height of the control unit:	approx. 65 x 18 x 6,5 mm
Length, diameter of the release unit:	approx. 43 x 8 mm
Cable length of the release unit:	approx. 500 mm
Cable length of control unit:	can vary standard approx. 650 mm
Volume:	standard approx. 144 cm <sup>3</sup>
Weight:	
Programmable delay time:	0 - 999 sec
Storage temperature:	+71° to -50° Celsius
Working temperature:	+63° to -32° Celsius *
Maximum allowable humidity:	up to 98 % rel. humidity
Operating range for units manufactured prior to 11/20	0211,600 feet to + 38,000 feet MSL
	(-500 m to +11,700 m)
Operating range for units manufactured or maintained 1	1/2021 and after 1,600 feet to +65,000 feet MSL
	(-500 m to +20,000 m)
Functioning period (once activated by pulling the ora	nge activation cushion): 14 hours
Power supply:	service life warranty**
Maintenance:	see chapter 12.1***
Warranty period:	see chapter 15
Warranty period: Service life:	see chapter 12.1***
	1

<sup>\*</sup> These temperature limits do not mean the outside (ambient) temperatures but rather temperatures inside the processing unit. Therefore, these limits won't have any meaning until the processing unit itself has reached the temperatures in question.

\*\*\* Anticipated, according to the present knowledge base.

## 12.1 Versioning

For units with DOM 12/15 and earlier the maintenance is mandatory to be performed 4 and 8 years after the original DOM. Service Life is 12.5 years.

For units made in 2016 the maintenance is recommended to be performed 4 and 8 years after original DOM. Service Life is 12.5 years.

For units with DOM 01/17 and later the maintenance is recommended to be performed 5 and 10 years after the original DOM. Service Life is 15.5 years.

## 13. Warranty

Airtec GmbH & Co. KG grants the legally prescribed warranty of two years. Provided it is technically possible and economically justifiable, we intend to carry out repairs free of charge on a voluntary basis for a further three years for all non-intentional or non-negligent damage. Provided it is technically feasible and economically justifiable, and the affected device has been regularly maintained on schedule, Airtec will

thereafter, at its sole discretion, consider repair or replacement free of charge for all non-intentional or non-negligent damage. This has been a longstanding Airtee practice since 1991.

The manufacturer reserves the right to decide whether the unit will be repaired or replaced. Neither repair nor replacement will affect the original warranty.

When a CYPRES2 unit is returned to the manufacturer or service center, it must be packed in the original box or an equivalent shipping package including a fully completed service form/proper documentation for billing purposes, return shipping information, contact information, and any other relevant notes.

No claims will be accepted if the unit has been damaged or opened by an unauthorized individual or if an attempt has been made to open the processing unit, release unit (cutter) or control.

#### 14. Disclaimer

In designing and manufacturing CYPRES2, the aim of Airtec GmbH & Co. KG Safety Systems is that the device should not accidentally sever the reserve closing loop, but that the device should attempt to sever the reserve closing loop when the activation criteria are met.

All investigations and experiments performed during the product's development and all laboratory and field tests accompanying the device's trial and production phases have indicated that CYPRES 2 meets both of these goals.

However, as an electromechanical device the possibility of CYPRES 2 malfunctioning cannot be excluded. Such a malfunction may cause injury or death. We accept no responsibility for any damage or loss resulting from any malfunction.

Airtec GmbH & Co. KG Safety Systems also accepts no responsibility for any damage or problems caused by the use of non-original Airtec parts and accessories. In conjunction with persons parachutes, all spare parts and components of the device are to be used exclusively with a CYPRES AAD. They are not permitted to be used with any non-CYPRES device.

The use of CYPRES 2 is voluntary and does not automatically prevent injury or death. Risk can be reduced by ensuring that each component has been installed in strict compliance with the manufacturer's instructions, by obtaining proper instruction in the use of this system, and by operating each component of the system in strict compliance with this User Guide. If used in the USA, CYPRES 2 shall be used in accordance with USPA BSRs. Automatic activation devices (AADs) sometimes display an incorrect status, fail to operate or fail to operate properly, and activate when they should not, even when properly installed and operated. The user therefore risks serious injury or even death to themselves and others during each use. By using or allowing others to use CYPRES 2, you acknowledge that you accept responsibility for the proper use of this device, as well as accepting the consequences of any and all use of this device. The sole and complete responsibility of Airtec GmbH & Co. KG Safety Systems, its dealers, service centers and agents is limited to the repair or replacement of any defective device. CYPRES 2 is strictly a backup device and is not intended to replace proper training or timely execution of appropriate emergency procedures. If you, your friends or family do not agree to these disclaimers please do not use CYPRES 2.

#### 14.1 Limitation of use

regarding the CYPRES Cutter(s):

Cutter 1-pin standard length – NSN: 1377-12-364-4230;

Cutter 2-pin standard length – NSN: 1377-12-364-4231;

Cutter 3-pin standard length – NSN: 1377-12-395-7480;

and each other non-standard CYPRES Cutter. The customer agrees to the following limitation of use and its consequences.

#### LIMITATION OF USE

The customer acknowledges and agrees that the Cutter(s) will be exclusively used with CYPRES AAD devices in accordance to the CYPRES user guide. Additionally, Customer shall not reverse engineer, decompile, or disassemble the CYPRES Cutter(s).

Any usage of the Cutter(s) without a CYPRES AAD is generally prohibited.

Exceptions to this prohibition must be requested and approved in writing by Airtee GmbH & Co. KG Safety Systems. Approval is at the sole discretion of Airtee GmbH & Co. KG Safety Systems.

Airtec GmbH & Co. KG Safety Systems is not liable nor prosecutable for misuse and/or unauthorized use of the Cutter(s) and reserves the right to take legal action if misuse and/or unauthorized use of its products becomes known.

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# 16. Packing List

In addition to the Time CYPRES 2 unit and the user's guide, the following items will be delivered:

#### For 1-pin Time CYPRES 2:

1 metal ripcord cable housing for the activation handle

2 1-pin Loops

1 pull up

1 disc

1 filter

1 filter changer

#### For 2-pin Time CYPRES 2:

1 metal ripcord cable housing for the activation handle

2 Loops

2 pull ups 2 discs

1 (1)

1 filter

1 filter changer

## **Trade Marks**

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