The Military CYPRES Quick Guide For Operators

The military CYPRES is available in the following standard models:
All models can be adapted with a one or two-pin cutter.

1000/35 A

1000/35 indicates that this unit is set to activate at approximately 1000 ft above the DZ if the vertical speed is faster than approximately 35 meters / second
(~ 78 mph)

1500/35 A

1500/35 indicates that this unit is set to activate at approximately 1500 ft above the DZ if the vertical speed is faster than approximately 35 meters / second
(~ 78 mph)

1900/35 A

1900/35 indicates that this unit is set to activate at approximately 1900 ft above the DZ if the vertical speed is faster than approximately 35 meters / second
(~ 78 mph)

2500/35 A

2500/35 indicates that this unit is set to activate at approximately 2500 ft above the DZ if the vertical speed is faster than approximately 35 meters / second
(~ 78 mph)

The **A** indicates that all CYPRES work with absolute pressure

For further information's or questions please contact
military@cypres.aero

This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

The Military CYPRES Quick Guide For Operators

The military CYPRES is available in the following standard models:
All models can be adapted with a one or two-pin cutter.

2500/29 A

2500/29 indicates that this unit is set to activate at approximately 2500 ft above the DZ if the vertical speed is faster than approximately 29 meters / second
(~ 65 mph)

Changeable MODE

Activation altitude
according to each Mode

active BDZ (Below DropZone)
Activation altitude down to MSL

Available for all military models
but on request only
This feature increases the chance of unwanted activation's inside the airplane

The **A** indicates that all CYPRES work with absolute pressure

For further information's or questions please contact
military@cypres.aero

This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

2 Application Modes

Training Mode

The feature of the civilian CYPRES properties were adapted to the various military models. The activation altitude and speed criteria are based on the military model. (see reference data in the user's guide). While on the ground it takes care of all meteorologic pressure changes during the next 14 hours.
Useful if you are doing training jumps, when Take OFF and landing (Target DZ) will be at the **same** location / elevation.
Flight counter available on Training Mode flights only.

Take OFF / Landing

Operation Mode

The unit can be set to every DZ on this globe, whether it is the Dead Sea or the Himalaya or even to a higher virtual DZ e.g. HAHO jump.
It is possible to do the programming prior to Take-OFF, during flight and even inside an active pressurized cabin.
Just enter the absolute air pressure value (hPa) of your Target DZ into the control unit display.
No flight counter available in Operation Mode.

Take OFF

This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

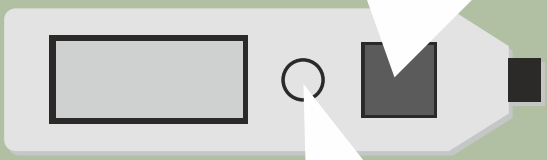
Quick Guide
- General Guidance -

Explanation of the symbols / icons in this Quick Guide

click the button (a short press and release)

hold the button (keep the button pressed)

release the button



LED **flash**

LED **ON**

LED **OFF**

next indication / action

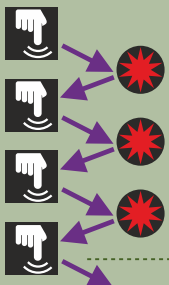
indication sequence ends with

continues from „10“ to „0“

e.g. calculation examples **in blue**

This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

Switch ON
Training Mode



SWITCH OFF
same procedure

* 10 — self test calibration 10 ¡æ 0

9

8

0910 — ambient air-pressure at actual / current location

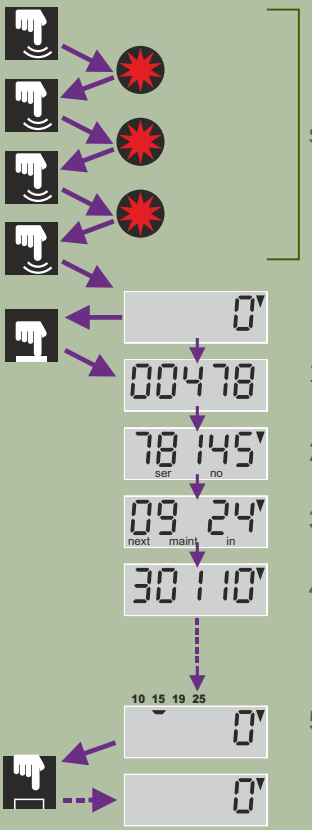
** 0' — self test OK unit switched ON

* **IMPORTANT**: watch the complete „count down“ until you see 0'

** Additional information possible between “1” and “0'
(displayed on page 15 + 16)

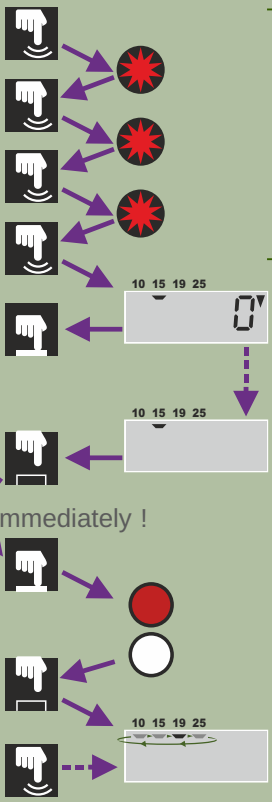
This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

Unit Information



This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

Changing the Mode
1000 / 1500 / 1900 / 2500



switch ON in
“Training Mode“

self test calibration 10 ⇨ 0

- right when 0' appears, quickly press the button and keep it pressed
- you will see a series of information about your CYPRES (see „Unit information“)

- wait until the bar shows the actual mode setting (10 / 15 / 19 / 25)

- let the button go and press again quickly and keep it pressed

- CYPRES turns ON the LED

- when the LED is OFF immediately lift your finger

- the setting will cycle through all possible mode´s (10 / 15 / 19 / 25)

- click your new choice

2x

immediately !

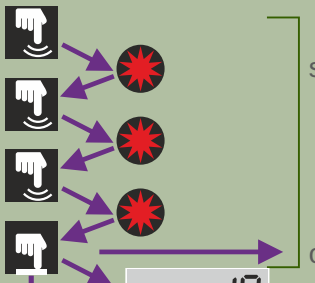
then the CYPRES will switch itself OFF.

the change is not completed yet!

you have to repeat the entire procedure once more to complete and fix the mode change.

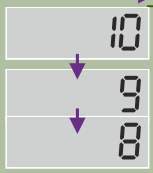
This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

Switch ON
Operation Mode
“Entering hPa of Target DZ“ (Example 893 hPa)



switch ON

on the 4th click **hold** the button



self test calibration 10 ⇨ 0

ambient air-pressure at actual / current location

appears immediately

the first left digit **1** alternates with **0**

at the chosen number ***** **release** the button

hold the button again

continued on next page

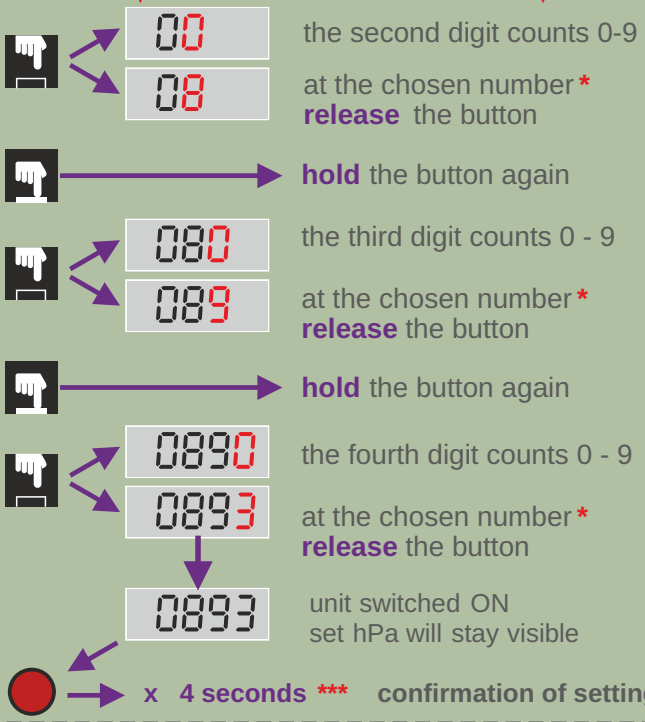
****** Additional information possible between “1” and “0” (displayed on the last 2 pages)

This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

Switch ON
Operation Mode

“Entering hPa of Target DZ“ (Example 893 hPa)

continued from previous page



*** during this **4 seconds** it is possible to restart setting procedure by **holding** the button

* if you missed the correct number, just **keep holding the button** until the number appears again.

This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

Operation Mode
Using The Military Calculator

If absolute air-pressure (hPa) of Target DZ is not available

METHOD 1 --> if:

- Target Dz and Take Off area are local but at different elevations
- Take Off elevation is available
- Target DZ elevation is available

switch ON

enter **ambient** ground pressure (QFE) (switch ON hPa value)

press hPa e.g. 910

press **+** (if target is higher)
press – (if target is lower)

enter **difference** in feet (meters) between Take OFF location and Target DZ. e.g. 500

press „feet“ (meters)

display shows hPa of Target DZ

enter value into the Military CYPRES

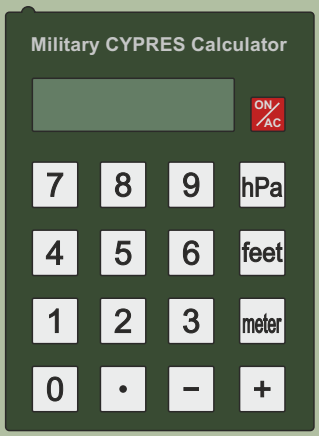
This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

Operation Mode
Using The Military Calculator

If absolute air-pressure (hPa) of Target DZ is not available

METHOD 2 --> if:

- Target DZ and Take Off area are at different locations
- elevation of Target DZ is available



switch ON

enter number (feet / meter) of altitude of Target DZ above MSL

e.g. 1470

(if below sea-level enter number and add "-")

press feet (meter)

press hPa

display shows hPa of Target DZ

(only an estimation as this pressure value does not accommodate local weather variations)

enter value into the Military CYPRES

This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

Operation Mode
Using The Military Calculator

If absolute air-pressure (hPa) of Target DZ is not available

METHOD 3 --> if:

- Target DZ and Take Off area are at different locations
- Target DZ pressure at Mean-Sea-Level (QNH / Altimeter setting) is available

switch ON

enter number hPa of Target DZ at MSL (QNH / altimeter setting)

e.g. 1022

press hPa

press "+" or "-"

enter elevation of Target DZ above/below MSL

e.g. 3555

press feet / meter

display shows hPa of Target DZ

enter value into the Military CYPRES

This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

Important Notes For Airplane Pilots !

If you use the Military CYPRES in Training Mode (also see next page)

- Every Military CYPRES has to **exceed** an altitude of more than 1500 ft above activation altitude to become fully armed.
- **Never** descend to an altitude **below** the Take OFF elevation
- If the aircraft can be pressurized, make sure that the cabin remains open when the turbines are started up. Leave a window, a door open slightly until after lift-off. Make sure that the cabin pressure cannot build up above the air pressure on the ground.
  (**! the altimeter should never go below „0“**)

Always: If you use the Military CYPRES in Operation Mode and Training Mode

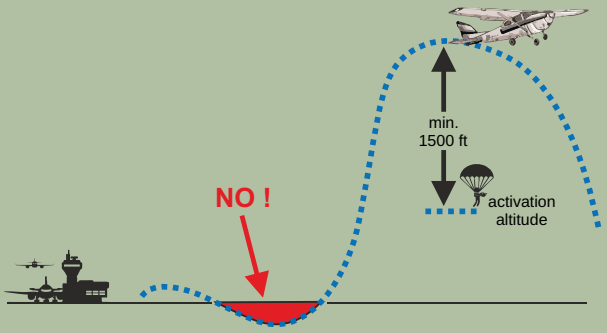
- Stay below the vertical activation speed inside the activation window; 6900 ft/min (35 m/s) or 5700 ft/min (29 m/s) if you are descending with the aircraft. Can also be simulated by changing the cabin air pressure.
- CYPRES with dom before November 2021 will lock itself with the PSE error if exposed to elevation ranges above 38.000 ft / 11.700 m (equivalent to 200 hPa).
  All new CYPRES after 11/2021 and all service units will have / get a new and extended elevation range up to 65.000 ft / 20.000 m

This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

Important Notes For Users !

- To make sure that a Military CYPRES device is armed when it is used in **Training Mode** you must flyat least 1500ft above the preset firing altitude. The Military CYPRES device is always armed when in **Operational Mode.**For this reason please switch off after landing.
- A two canopy scenario can occur, if the main deploys too low and the opening reaches into the activation window.
- In case of **Training mode** only: After take-off please ascend at more than 180 feet per minute (1 meter / second) for at least 30 seconds.

The drawing below shows what must be adhered to when using the Military CYPRES in Training Mode!



If the Military CYPRES is used in Operation Mode, the above mentioned limitations do not apply.

- The CYPRES 2 is waterproof (in fresh and salt water) for - 15 ft for up to 15 minutes; - 8 ft for up to 24 hours
- After contact with water, CYPRES must be switched OFF after exiting the water. - replace filter before next use
- After an activation, the cutter can be replaced by any rigger / packer. After the change, perform a self test and the unit can be used again immediately.
- After 14 hours have passed, every CYPRES unit will switch off automatically. No matter of the actual location.

This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

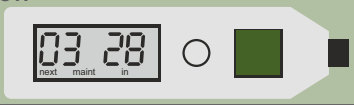
Information On Control Unit Display

These notes will eventually appear during the self test procedure between 1 and 0

These messages are not ERROR codes. Only helpful information's.
The service window frame is 13 months.
Example: date of manufacture **03/2023,** the first maintenance is possible 09/2027 until 09/2028
The second maintenance is possible 09/2032 until 09/2033

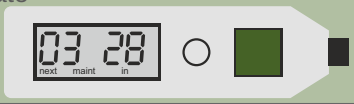
starting 6 months prior to maintenance date (09/2027)
beginning of service time window

displayed for 2 seconds



starting at maintenance due date

displayed for 3 seconds



maintenance date over due 3 months

displayed for 5 seconds

maintenance over due 6 months (now*)
end of service time window (09/2028)

displayed for 5 seconds

* can only be deactivated during maintenance

starting 15,5 years after date of manufacture (age)
end of service life time.
Can start appearing within the last month.

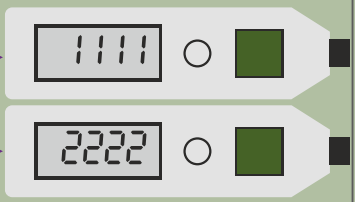
displayed for 5 seconds

This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.

Error Codes
On Control Unit Display

If there is an error detected during the self test then it shows this code for about 2 seconds before it switches itself OFF.

One or both cutters are not electronically connected to the unit.
Reasons: activated cutter, damaged cable, plug not completely connected.
Action: replace or reconnect cutter. Switch ON procedure can be repeated. If self test is OK CYPRES can be used again



Excessive pressure variations during self test.
Possible reason: moving vehicle or moving aircraft.
Action: Switch ON procedure can be repeated. If self test is OK CYPRES can be used again

Low battery condition.
Action: contact Airtec / SSK before further use

Power Down
Action: contact Airtec / SSK before further use

Checksum Error
Action: contact Airtec / SSK before further use

Pressure Sensor Error
Action: contact Airtec / SSK before further use

If unit does not switch OFF after 14 h, or another code is shown on display, or if there is no red light, do not use the CYPRES and contact Airtec HQ military@cypres.aero or SSK info@sskinc.com before further use

This Quick Guide does not replace the CYPRES User´s Guide nor releases the user from the obligation to comply with the contents of the CYPRES User´s Guide.