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.cc

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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

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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.

HALO

HAHO

Landing

Take OFF

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Quick Guide
- General Guidance -

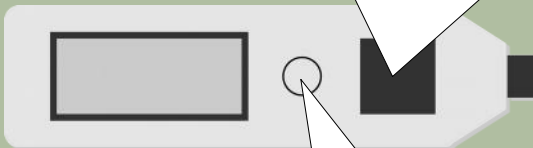**Explanation of the symbols / icons in this Quick Guide**

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

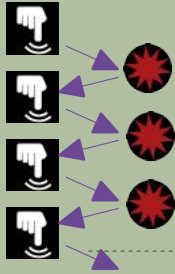indication sequence ends with

continues from „10" to „0"

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

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Switch ON
Training Mode

SWITCH OFF
same procedure

* self test calibration 10 → 0

`10`

`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)

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Unit Information

switch ON

1) flight counter

2) serial number

3) next maintenance

4) revision number

5) mode setting
   (on changeable Mode only)

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switch ON in
"Training Mode"

10 15 19 25

$0^{\blacktriangledown}$

self test calibration 10 → 0

- right when $0^{\blacktriangledown}$ appears,
  quickly press the button and keep it
  pressed
- you will see a series of information
  about your CYPRES (see „Unit
  information")

10 15 19 25

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

immediately !

- 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

10 15 19 25

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

- click your new choice

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.

2x

**How to
change the Mode**

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Guide nor releases the user from the obligation to comply
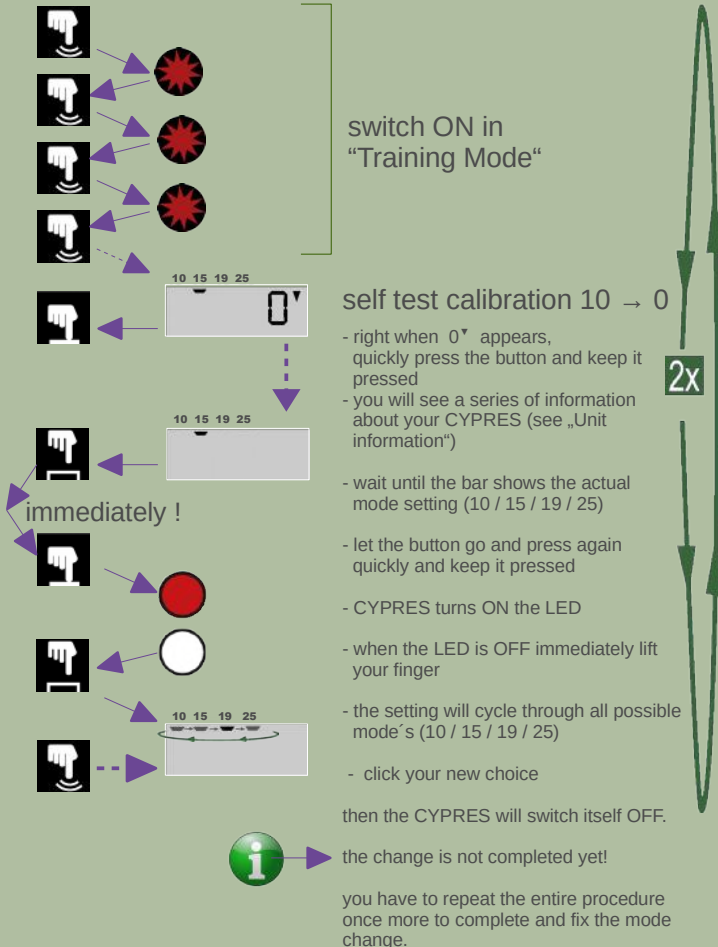with the contents of the CYPRES 2 User's Guide.

switch ON

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

10

self test calibration 10 → 0

9

8

0910

ambient air-pressure at actual / current location

**

0'

1000 → appears immediately

1000

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

00

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)

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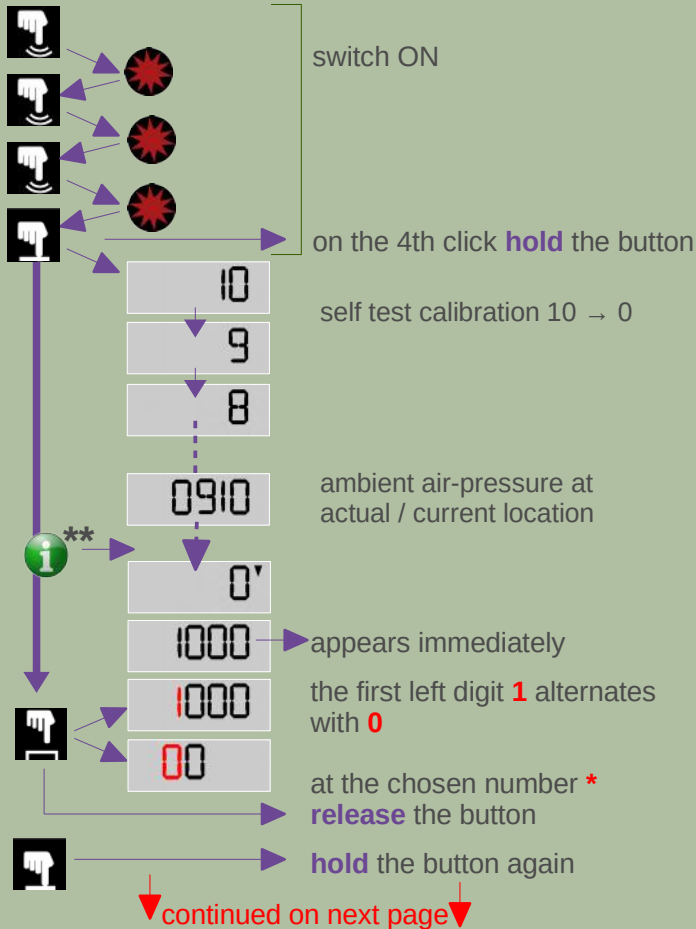
00   the second digit counts 0-9

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

hold the button again

080   the third digit counts 0 - 9

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

hold the button again

0890   the fourth digit counts 0 - 9

0893   at the chosen number * **release** the button

0893   unit switched ON set hPa will stay visible

●   x **4 seconds** ***   **confirmation of setting**

- -

*** 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.

Switch ON Operation Mode cont.

Operation Mode
Using The Military Calculator

If absolute air-pressure (hPa) of Target DZ is <u>not</u> 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**

Military CYPRES Calculator

HELP

on/ac

7	8	9	hPa
4	5	6	feet
1	2	3	meter
0	.	-	+

← switch ON

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

e.g. **9 10**

← press hPa

← 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)

<u>display shows hPa of Target DZ</u>

enter value into the
Military CYPRES   →   **0893** ○ ■   ■

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Operation Mode
Using The Military Calculator

If absolute air-pressure (hPa) of Target DZ is <u>not</u> available

METHOD 2 --> if:
- Target DZ and Take Off area are at ==different== locations - elevation of Target DZ is available

Military CYPRES Calculator

HELP

7	8	9	hPa
4	5	6	feet
1	2	3	meter
0	.	-	+

on/ac

← 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

<u>display shows hPa of Target DZ</u>
(only an estimation as this pressure value does not accommodate local weather variations)

enter value into the Military CYPRES

`0960`

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Operation Mode
Using The Military Calculator

If absolute air-pressure (hPa) of Target DZ is <u>not</u> available

METHOD 3 --> if:

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

Military CYPRES Calculator HELP

7	8	9	hPa
4	5	6	feet
1	2	3	meter
0	.	-	+

on/ac

← 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 → **0898**

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Military Calculator

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.
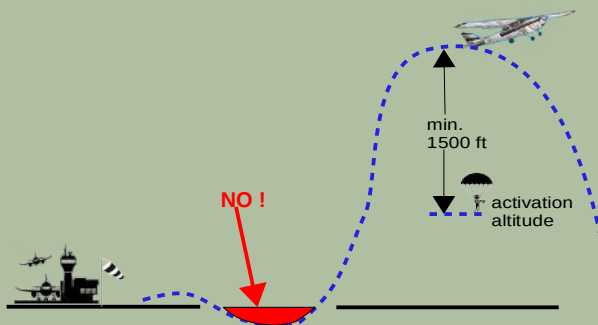
Notes for Pilots

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Important Notes
For Users !

- To make sure that a Military CYPRES device is armed when it is used in Training Mode, you must fly at least 1500ft above the preset firing altitude. The Military CYPRES device is always armed when in Operational Mode.
- 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!

min.
1500 ft

NO !

activation altitude

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.

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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 **03/2017,** the first maintenance is possible 09/2021 until 09/2022
The second maintenance is possible 09/2026 until 09/2027

starting 6 months prior to maintenance date (09/2021)
beginning of service time window

displayed for 2 seconds ➤ `03 22` next maint in ○ ■ ▪

starting at maintenance due date

displayed for 3 seconds ➤ `03 22` next maint in ○ ■ ▪

maintenance date over due 3 months

displayed for 5 seconds ➤ `03 22` next maint in ○ ■ ▪

maintenance over due 6 months (now)
end of service time window (09/2022)

displayed for 5 seconds ➤ `NOW` next maint ○ ■ ▪

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 ➤ `AGE` ○ ■ ▪

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Display Information's

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

```
1111
```

```
2222
```

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

```
3333
```

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

```
7777
```

Power Down
Action: contact Airtec / SSK before further use

```
Pdo
```

Checksum Error
Action: contact Airtec / SSK before further use

```
CHS
```

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

```
PSE
```

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 military@cypres.cc or SSK info@sskinc.com before further use

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