

# PRO-DYTTER



## INSTRUCTION

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**!!! WARNING !!!**

Do not put the PRO-TRACK directly next to the ear when testing the alarm sounds on the ground.

The PRO-TRACK alarm volume is very loud, especially when the alarm volume is set to "HI Volume". It may cause pain or even damage to the ear.

Due to outside wind noise in freefall the alarm sounds will not be as loud as when testing the PRO-TRACK on the ground.

If the PRO-TRACK is not mounted correctly you may not hear the alarm sounds in freefall. Make sure the PRO-TRACK is mounted correctly before you jump.

Use the PRO-TRACK at your own risk.

PRO-DYTTER Larsen & Brusgaard, Denmark

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Larsen & Brusgaard operates a policy of continuous development. Therefore, we reserve the right to make changes and improvements to any of the products described in this guide without prior notice

US Patent Number: Des. 392,572



## Introduction

Congratulations on your new PRO-DYTTER!

The PRO-DYTTER is designed to use the latest findings in microcomputer technology and freefall parameters.

The PRO-DYTTER is the first audible altimeter which offers the user the choice of selecting one, two or three warning altitudes.

The PRO-DYTTER is fully automatic. It continually records the ambient air pressure and temperature and adjusts the electronic circuitry to the local elevation.

The thin and ergonomic curved design ensures a perfect and comfortable fit to your ear when put within a fraphat or hard helmet.

A snap-on Holder is included for mounting the PRO-DYTTER on the outside of any type of helmet.

The PRO-DYTTER is compatible with the Light-Track visual warning system.

The PRO-DYTTER is the ideal instrument for Relative Work, Skysurfing, Freestyle, Student, Tandem, AFF.

We hope you will enjoy jumping with the PRO-DYTTER.

## TO OPERATE THE PRO-DYTTER, PERFORM ACCESS

When performing , "READY" will light two times. The first time when you must press and hold MODE and the second time when you must release MODE.

Press the  button in the following sequence:

1. Press  (short beep sound) and let go quickly
2. When "READY" indicator lights, immediately press  again (short beep sound) and keep it pressed.
3. When "READY" lights for the second time, let go quickly.

The PRO-DYTTER is now in ACCESS Mode and displays the preset warning altitudes for 5 sec.

Please note that the unit goes out of ACCESS Mode if "setting the warning altitudes" or "choosing a function" has not been initiated within the 5 sec.

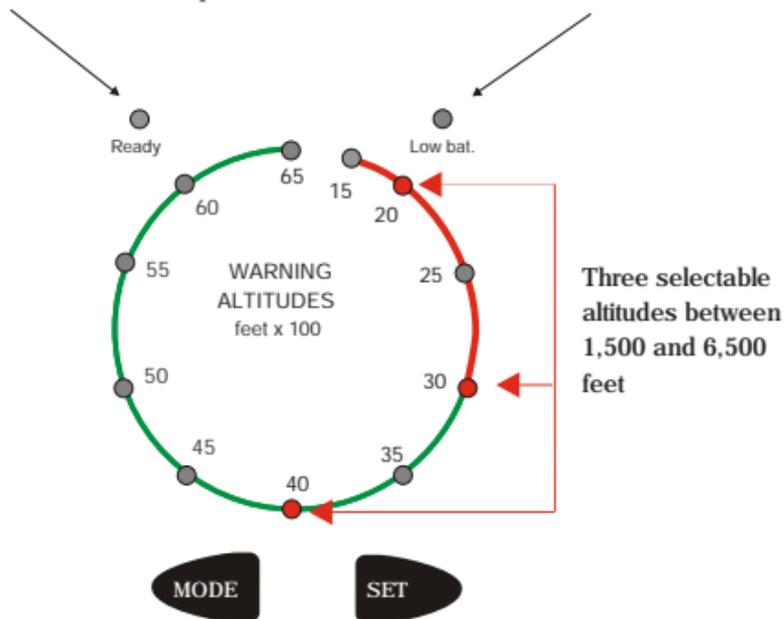
## READY

1. Indicates when the PRO-DYTTER is ready for performing ACCESS

2. Flashes when in Jump Mode

## LOW BAT.

Indicates when batteries must be replaced



## SETTING THE WARNING ALTITUDES

### Three warning alarms:

1. Perform **ACCESS**

2. Press and let go  then to  the first warning altitude

3. Press and let go  then  change second warning altitude

4. Press and let go  then  change third warning altitude

### Two warning alarms:

Same as above, but choose same altitude for two of the warning alarms.  
(The unit will sound the 2nd and 3rd warning alarms).

### One warning alarm:

Same as above, but choose same altitude for all three warning alarms.  
(The unit will sound the 3rd warning alarm).

## Remarks

- The setting of the warning altitudes can be made either on the ground or in the airplane during climb to jump altitude.
- It will not affect the performance of the PRO-DYTTER if the program buttons are pressed unintentionally on the ground, in the airplane or during freefall.

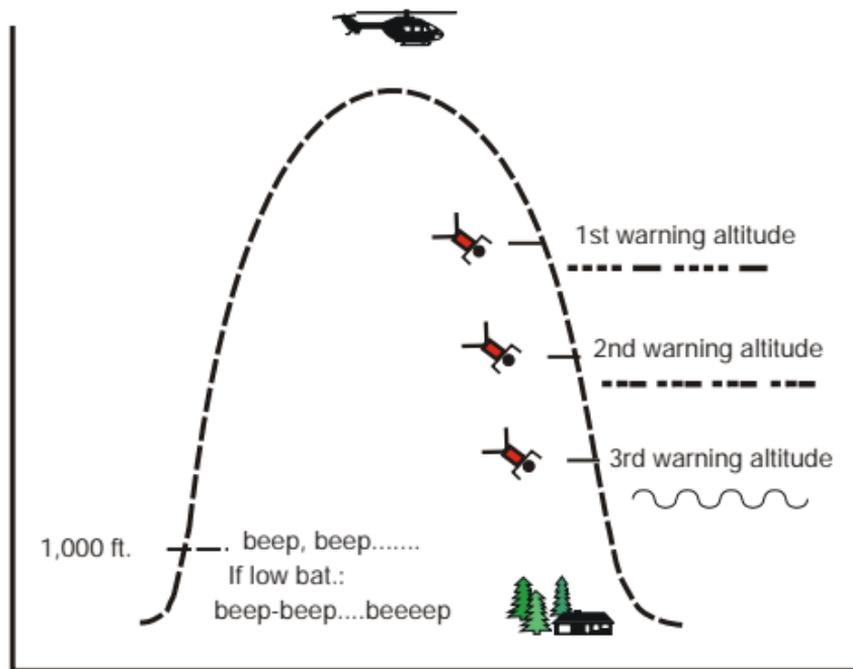
## PRESET ALARM SOUNDS

- 1st:** One 3 second pulsating alarm if vertical airspeed exceeds 20 m/sec.
- 2nd:** One 4 second pulsating alarm if vertical airspeed exceeds 20 m/sec.
- 3rd:** Continuous siren as long as vertical airspeed exceeds 27 m/sec.

## Checking preset alarm sounds

1. Perform **ACCESS**
2. Press and hold  until the PRO-DYTTER starts to sound the preset alarm sequence.

## FUNCTION AND ALARM SEQUENCE



## q Jump Mode

Shortly after take-off the "READY" light flashes once every 7 sec., indicating that the unit has switched to Jump Mode.

## q 1,000 Feet Test

At 1,000 feet +/-100 feet the PRO-DYTTER sounds a sequence of beeps. These beeps have two functions:

1. They indicate that the PRO-DYTTER is calibrated to the local ground elevation and is ready to jump.
2. The sound sequence indicates the altitude at which the highest warning alarm is set; ex.: if set to 5,500 feet the signal will sound:  
beep-beep-beep-beep-beep- (pause)-beep.

In case of "Low bat." the sequence is followed by a long beep.

## Manual Zeroing

q When arriving at the Drop Zone the PRO-DYTTER may be in Jump Mode ("READY" light flashes once every 7 sec). In this case it is necessary to manually zero the unit before jumping, as follows:

1. Perform **ACCESS**

2. Press and hold    
until continual beeps are heard, and let go.

- q If the Drop Zone elevation differs from the airport of take-off:

Perform Manual Zeroing in the airplane at Drop Zone elevation, or compensate by adjusting the warning altitudes accordingly.

- q Perform Manual Zeroing before entering the airplane if the pressurized cabin is going to be activated.

## Low battery

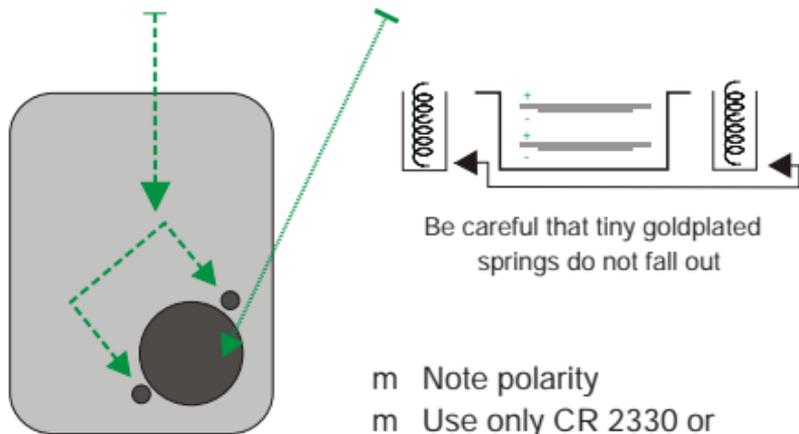
A "Low bat." condition is indicated as follows:

- q After performing ACCESS, the "Low bat." lights and the unit sounds an alarm.
- q A continuous alarm tone sounds for 5 sec. when climbing through 1,000 feet.
- q The "Low bat." flashes once every 7 sec. when the PRO-DYTTER is in Jump Mode.

Replace batteries when "Low bat." lights, \_\_\_\_\_

## Battery replacement

1. Remove screws
2. Remove battery cover



Note: After removal wait 120 sec. before installing new batteries.

Upon installing new batteries press

and wait for self test to finish (light and sounds).



## Specifications

Dimensions: 58 x 43 x 11 mm

(2-1/4 x 1-3/4 x 1/2 inches)

Weight: 50 grams (2 oz.)

Battery type: 2 x CR 2330 or equivalent

Battery Life Time: Approx. 2 years or 500 jumps

Alarm sounds:

1st warning: Sounds at the preset altitude if

vertical airspeed exceeds 20 m/sec.

Sound sequence:

Pulsating, low repetition (total 3 sec.)

2nd warning: Sounds at the preset altitude if

vertical airspeed exceeds 20 m/sec.

Sound sequence:

Pulsating, high repetition (total 4 sec.)

3rd warning: Sounds at or below the preset  
altitude as long as vertical  
airspeed exceeds 27 m/sec.  
Sound sequence:  
High pitch continuous siren

Alarm output volume:120 dB

Calibration Range: 1,500 to 6,500 feet

Altitude selection interval: 500 feet

Operating altitude: 0 to 40,000 feet

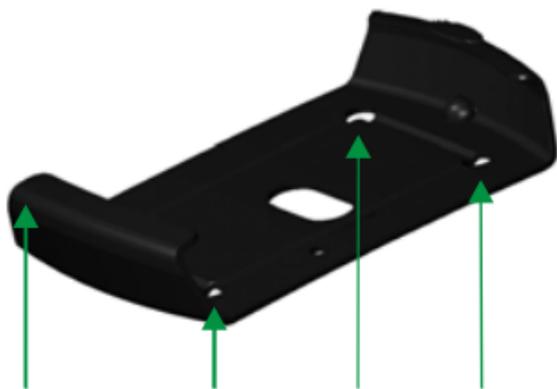
Accuracy:  $\pm$  100 feet

Operating Temperature -20° C to +50° C  
Range:(-4° F to +122° F)

Meets or exceeds EEC/89/336

## Mounting the Holder on a helmet

Loop 2,5 mm cable ties or threads through the four mounting holes and fasten on helmet.



Mounting holes

## Fixing the PRO-DYTTTER in the Holder

1. Place bottom  
end first

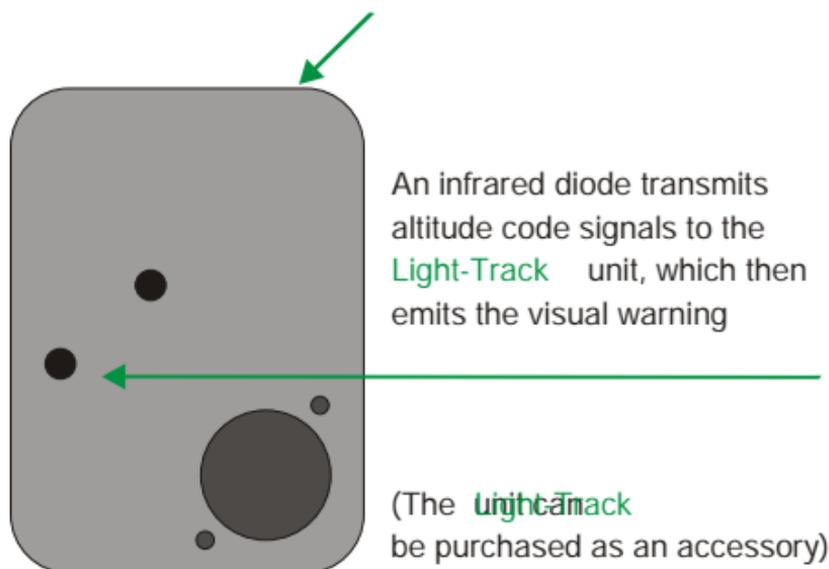
2. Press to snap  
into place



Bend  
outwards  
when  
removing

## Output for connection to visual warning

Back of PRO-DYTTER



## Warranty

The following conditions apply to the PRO-DYTTER warranty:

- q Damage or defects in the unit within 12 months after delivery that are proven to be caused by faulty manufacture will be repaired at no cost to the end user.
- q Repairs performed under this warranty will not extend the warranty period.
- q To make a claim under this warranty, send the unit to an authorized dealer or directly to Larsen & Brusgaard together with the dated purchase invoice or receipt.
- q The warranty becomes void if damage is caused by external circumstances or if the unit has been serviced or repaired by third parties unauthorized by ourselves or our national agents.
- q All further claims, especially for defects after skydiving accidents, are excluded. The manufacturer has no obligation to honour any extension of warranty granted by his national agent.

## Waiver of liability

The buyer and user of the PRO-DYTTER indemnifies the manufacturer and vendor from any liability for damage incurred before, when and after skydiving with the instrument.

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