

USER MANUAL

DISPLAY

A: Analogue variometer

B: Screen 1
Altimeter A1

C: Screen 2
Digital variometer / Anemometer

D: Screen 3
Altimeter A2 - Altimeter A3 - Flight timer

KEYBOARD SYMBOLS



Switching on - Switching off



Menu



Variometer / anemometer variator



Volume of the acoustic variometer



Altimeters A2, A3 and flight timer



Zero-setter A2, A3 and timer

USE OF THE KEYS DURING THE FLIGHT

The keys to be used during the flight are 4.



Pressing it you can regulate the volume of the acoustic variometer: silent, medium, loud.



Pressing it you select A2, A3 and flight timer on the screen 3.





Pressing it you select the digital variometer or the instant speed (when the instrument is supplied with the speed probe) on the screen 2.







Pressing it you zero the value now appearing on the screen 3 (A2, A3 or flight timer).



SETTING UP OF THE ALTIMETERS

The instrument is equipped with 3 altimeters: A1 is readable on the screen 1, A2 and A3 are readable on the screen 3. It is possible to zero A2 and A3 pressing .






When the instrument has been switched on, press the key  and the following image will appear on the screen:


Screen 1	Rec
Screen 2	Alt
Screen 3	Set


Pressing  you can enter the various sub-menus in succession: choose the sub-menu Alt. Press  on the screen 1 and there will appear A1. The blinking indicates that this value is ready to be adjusted, pressing  to increase it and pressing  to decrease it (a steady pressure on the key makes this operation faster).



Once you have selected the required value, press  to confirm. Now you can do the same operation for the values A2 and A3. Then press  to exit the sub-menu.



AVERAGER AND ACOUSTIC VARIOMETER SENSITIVITY THRESHOLD SETTING

Press . Press twice  to choose the submenu Set. Pressing  the value on the screen 2 blinks: pressing  or  you can adjust the climb rate that the audio will begin to sound at. If you, for example, select the value 0.3, the acoustic variometer will signal only altimetric changes higher than 30 cm/sec.

After having selected the requested limit, press  to confirm. Do the same operation to select the descent limit.











Pressing  again you have access to the averager, which can be

selected for delays up to 30 seconds, pressing  or  (Ex.: if I choose sec 15 the analogue and sound-variometer will continue to signal the instantaneous altimetric change, while the digital variometer will indicate the altitude gain or loss over the last 15 seconds).



Once you have selected the delay press  to confirm. Escape .

ADJUSTING THE UNITS



The altimetric readings can be displayed in metres and Km/h or in feet and Mph. To change the measurement system you have to operate in the following way.


Press , press twice  and four times  then press  or  to choose if the height has to be expressed in metres or feet. Confirm pressing . Now press  or  to choose if the speed has to be expressed in Km/h or Mph. Press  to confirm. Escape .



HOW TO RECORD

Enter the main menu and choose Rec: pressing  you'll start the recording, which will be confirmed by the notice: Start Rec. The flight timer self-zeroes. The constant flashing of the indicator of the chosen measurement unit on screen 1 tells the pilot during the flight the recorder is on. Pressing  during the recording will interrupt it.


HOW TO READ THE RECORDING

It is possible to re-play the recorded flights up to 10 of them, the eleventh recording will cancel the first one. After you have entered the main menu, pressing  the number of the recorded flights will appear on screen 2, up to a maximum of 999 flights. Every time you enter the flight memory the instrument goes back automatically to the last recorded flight: if you want to read the data of a previous flight press  (you can go back up to 10 flights).

When you have chosen which flight to read press  to confirm and to

enter the reading of the highest values. If you press  again you enter the lowest recorded values. Pressing  you can read the highest speed of the flight on the screen 2, instead of the alti averager. On the screen 3 you can see the length of the flight in hours and minutes (up to 99 h and 59 min.).

HOW TO ACTIVATE THE ANEMOMETER

The instrument is calibrated to read speed during the flight. On the right side of the VL100 there is the jack, in which you can insert the special probe (optional). After its insertion you have only to press the key  to turn the variometric value into the anemometric one and vice versa on the screen 2.

POWER

The instrument is powered by two 1,5 volt pen light batteries. The working life is of about 200 hours, using alkaline batteries.

Be careful to insert the batteries with the correct polarity. When there are about 40 hours of power left, the flashing notice Batt on the display tells you that the batteries are nearly exhausted.

TECHNICAL DATA

3 altimeters readable up to 6096 mt
Analogue variometer with a scala up to +/- 10 mt/sec
Digital variometer with a scala up to +/- 25 mt/sec
Audio variometer with different tones for ascent and descent
Average variometer with a delay which can be set from 1 to 30 sec
Anemometer
Flight timer
Units, which can be set as metric decimal or imperial ft/mph
Data bank of the last 10 flights
Working life of about 200 h
Measures: 135x72x37 mm
Weight: about 200 g with the batteries

The technical data is liable to be changed without previous notice.