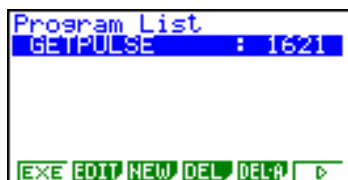
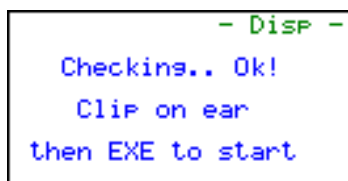




Using the GETPULSE program for heart rate monitoring and data collection

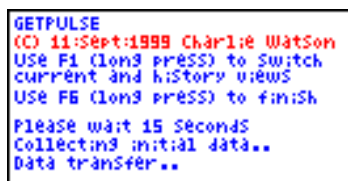


Connect the EA-100 to a CFX9850G or later calculator, turn both on and start the program GETPULSE.



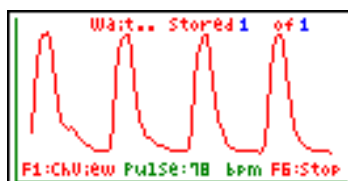
The program carries out a few checks and then displays the ready to start screen.

Make sure the Vernier Heart Rate Monitor (HRM-DIN) is connected to CH1 using the DIN adaptor (CBL-DIN).



With the ear clip in place press EXE and the EA-100 will immediately begin sampling.

The whole sampling, data transfer to calculator and pulse calculation cycle takes approx. 15 seconds.



If the ear clip is nicely positioned, a plot similar to that shown will be seen. If not, experiment with small changes to its position until a regular waveform is seen.

A long hold on F1 (until the screen changes) switches the view to a plot of all pulse values logged so far (history). Sampling will continue.



A maximum of 255 values can be stored, which will take at least 1 hour.

The vertical axis is fixed from 0 to 200 beats per minute but the horizontal axis re-scales each time, with each tick mark representing approximately one minute.

Another long hold on F1 switches back to the pulse waveform view, and so on.



Using the GETPULSE program for heart rate monitoring and data collection



The program does its best to detect rogue pulse samples, and when it does they are rejected – neither stored nor plotted in history view.

The screen shows a rejected sample and indicates that of 10 samples taken so far, 9 have been stored.

Low EA-100 batteries can cause sampling errors, and the program will indicate when this may be the case.

A long press on F6 will stop sampling and end the program.

Switch to STAT mode to see:

List 1 – Last sample times

List 2 – Last sample data

List 3 – Elapsed time (minutes) of recorded pulse values.

List 4 – Recorded pulse rates

GETPULSE is freely available from the ACES website at
<http://www.school.casio.com.au>

GETPULSE was written by Charlie Watson.
Email comments or suggestions to him via his website at
<http://carmen.murdoch.edu.au/~cwatson/casio.html>